HCD-FX80

SERVICE MANUAL

US Model
Canadian Model

Self Diagnosis Supported model

Ver. 1.2 2005.12

HCD-FX80 is the amplifier, DVD/CD and tuner section in DAV-FX80.

This system incorporates with Dolby*1 Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS*2 Digital Surround System.

*1 Manufactured under license from Dolby Laboratories. "Dolby," "Pro Logic," and the double-D symbol are trademarks of Dolby Laboratories.
*2 Manufactured under license from Digital Theater Systems, Inc. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

Model Name Using Similar Mechanism	HCD-FX10
Mechanism Type	CDM69EH-DVBU101
Optical Pick-up Name	KHM-310CAB/C2NP

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION: With 3 ohm loads, both channels driven, from 200 – 20,000 Hz; rated 55 watts per channel minimum RMS power, with no more than 0.7 % total harmonic distortion from 250 milli watts to rated output.

Amplifier section

Surround mode (reference) music power output
Front: 143 W + 143 W (with SS-TS46)
Center*: 143 W (with SS-CT46)
Surround*: 143 W + 143 W (with SS-TS43B)
Subwoofer*: 285 W (with SS-WS42)

* *Depending on the sound field settings and the source, there may be no sound output.*

Inputs (Analog)
VIDEO 1, VIDEO 2: Sensitivity: 450 mV, Impedance: 50 kilohms

Inputs (Digital)
VIDEO 1 (Coaxial), VIDEO 2 (Optical): Impedance: 75 ohms

Phones: Accepts low-and high-impedance headphones.

Super Audio CD/DVD system

Laser: Semiconductor laser (Super Audio CD/DVD: λ = 650 nm) (CD: λ = 790 nm)
Emission duration: continuous
Signal format system: NTSC
Frequency response (at 2 CH STEREO mode)
DVD (PCM): 2 Hz to 22 kHz (±1.0 dB)
CD: 2 Hz to 20 kHz (±1.0 dB)

Tuner section

System: PLL quartz-locked digital synthesizer system

FM tuner section
Tuning range: 87.5 – 108.0 MHz (100 kHz step)
Antenna (aerial): FM wire antenna (aerial)
Antenna (aerial) terminals: 75 ohms, unbalanced
Intermediate frequency: 10.7 MHz

AM tuner section
Tuning range: 530 – 1,710 kHz (with the interval set at 10 kHz)
531 – 1,710 kHz (with the interval set at 9 kHz)
Antenna (aerial): AM loop antenna (aerial)
Intermediate frequency: 450 kHz

— Continued on next page —

DVD RECEIVER

9-879-687-03
2005L16-1
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Sony Corporation
Home Audio Division
Published by Sony Engineering Corporation

SONY

Video section

Outputs	Video: 1 Vp-p 75 ohms S video: Y: 1 Vp-p 75 ohms C: 0.286 Vp-p 75 ohms COMPONENT: Y: 1 Vp-p 75 ohms P_B/C_B, P_R/C_R: 0.7 Vp-p 75 ohms HDMI OUT: Type A (19 pin)
Input	VIDEO1, VIDEO2: 1 Vp-p 75 ohms

General

Power requirements	120 V AC, 60 Hz
Power consumption	On: 160 W Standby: 0.3 W (at the Power Saving Mode)
Dimensions (approx.)	445 × 70 × 375 mm ($17\ ^5/_8 \times 2\ ^7/_8 \times 14\ ^7/_8$ inches) (w/h/d) incl. projecting parts
Mass (approx.)	5.1 kg (11 lb 4 oz)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

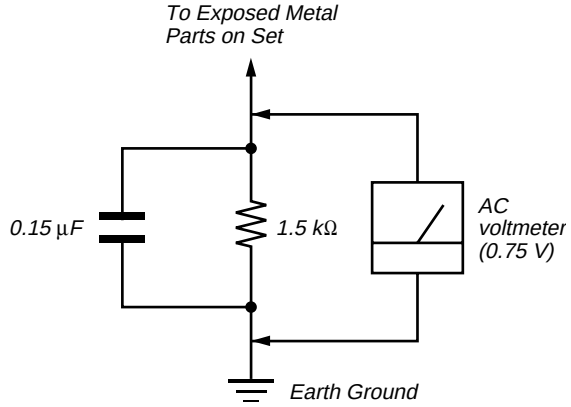

Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the bottom exterior.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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SECTION 1
SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveform is output several times.

DISC SLOT LOCK

The disc slot lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

1. Press the I/⏻ button to turn the set on.
2. Press the FUNCTION button to set DVD function.
3. Insert a disc.
4. Press the ■ stick and the ⏏ button simultaneously for five seconds.
5. The message "LOCKED" is displayed and the slot is locked.

Releasing Procedure :

1. Press the ■ stick and the ⏏ button simultaneously for five seconds again.
2. The message "UNLOCKED" is displayed and the slot is unlocked.

Note: When "LOCKED" is displayed, the slot lock is not released by turning power on/off with the I/⏻ button.

Note 1: Regarding the notification symbol "R"
Because the number of the operating buttons of this product are limited, some operations require use of the operating buttons of the remote commander, When a specific operation requires use of the operating buttons of the remote commander, "R" is added to the specific operating procedure in this manual.
Example MENU/NO "R" The MENU/NO button of remote commander.

Note 2: Incorrect operations may be performed if the test mode ia not entered properly.
In this case, press the I/⏻ button to turn the power off, and retry to enter the test mode.

Note 3: If the disc tray does not open and the message "LOCKED" appears, press the ■ stick and the ⏏ button simultaneously for 5 seconds or longer.
Then remove your fingers from the above stick and the button.
The message "UNLOCKED" appears for 2 seconds and the disc tray opens.

Note on DMB10 board replacement

New part of EEPROM (IC103) on the DMB10 board cannot be used. Therefore, if the mounted DMB10 board (A-1100-958-A) is replaced, exchange new EEPROM (IC103) with that used before the replacement.

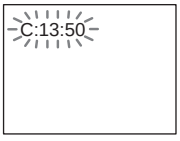
NOTE OF HANDLING THE MIB01 BOARD (A-1124-106-A)

When the MIB01 board is replaced by a repair for a fee, throw away the MIB01 board after obtaining consent of not returning of the MIB01 board to the customer. When throwing away the MIB01 board, be sure to throw away after destroying IC602 physically with the hammer etc.

Self-diagnosis Function

(When letters/numbers appear in the display)

When the self-diagnosis function is activated to prevent the system from malfunctioning, a 5-character service number (e.g., C 13 50) with a combination of a letter and 4 digits appears on the screen and the front panel display. In this case, check the following table.

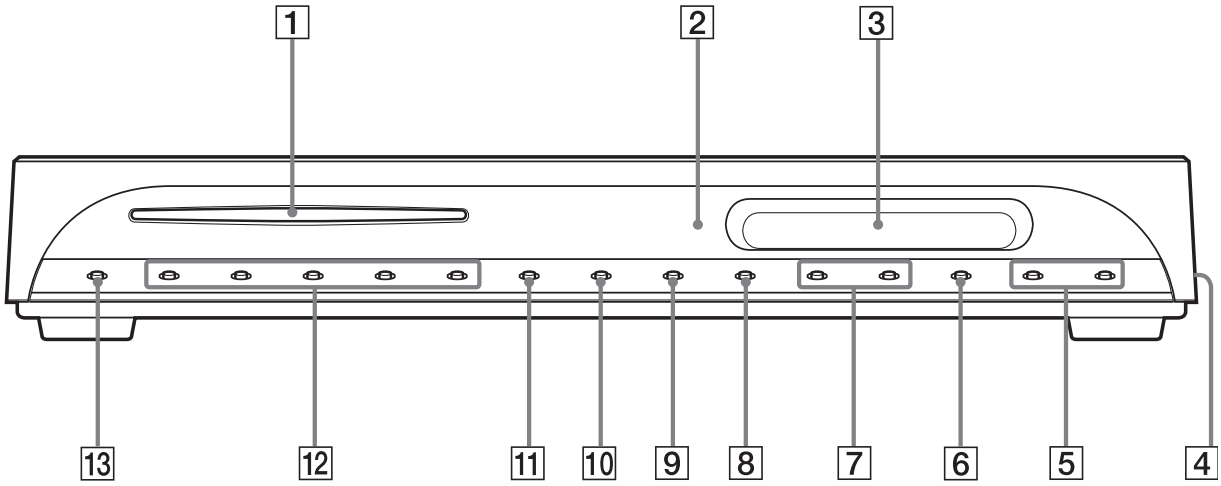


First 3 characters of the service number	Cause and/or corrective action
C 13	The disc is dirty. ➡Clean the disc with a soft cloth
C 31	The disc is not inserted correctly. ➡Restart the system, then re-insert the disc correctly.
E XX (xx is a number)	To prevent a malfunction, the system has performed the self-diagnosis function. ➡Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

SECTION 2
GENERAL

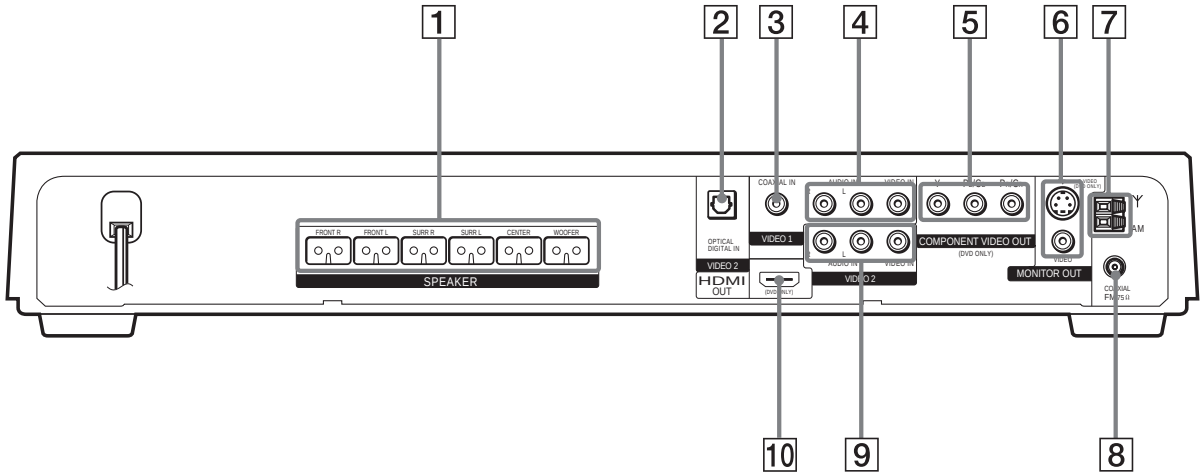
This section is extracted from instruction manual.

Front panel



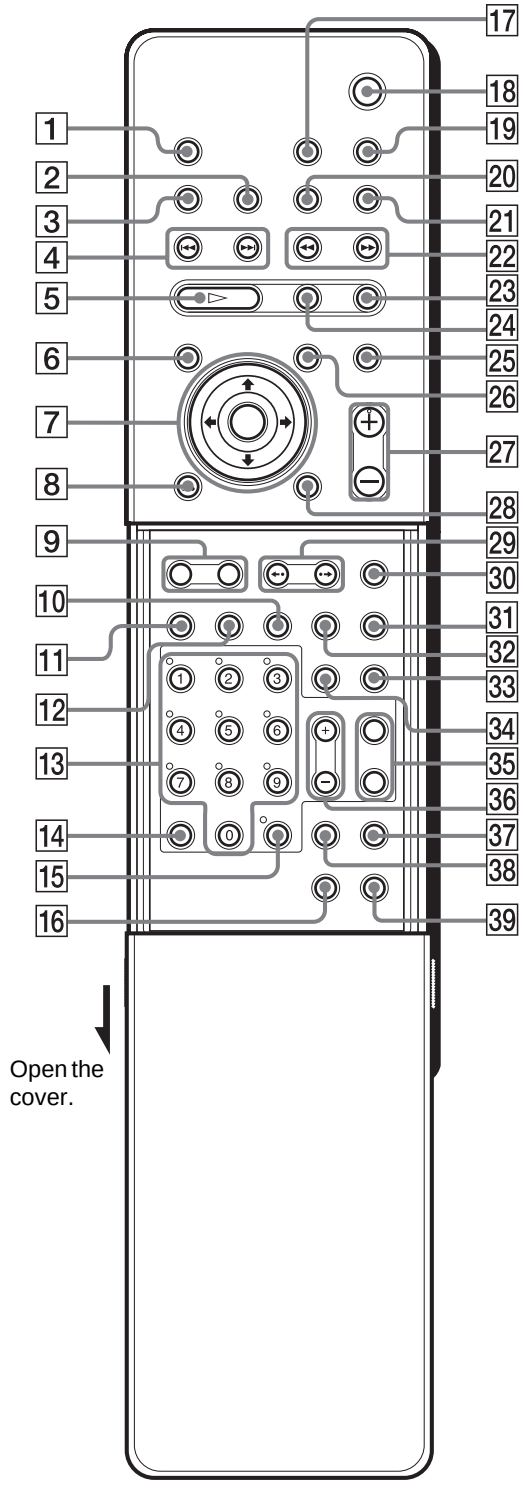
1 **Disc slot (36)**
2 **(remote sensor) (13)**
3 **Front panel display (96)**
4 **PHONES jack (36)**
5 **VOLUME +/– (36)**
6 **FUNCTION (36)**
7 **I◄◄ /►►I (37)**
8 **■ (stop) (37, 76)**
9 **II (pause) (37)**
10 **► (play) (36)**
11 **⏏ (eject) (36, 76)**
12 **DISC 1-5 (36)**
13 **I/⏻ (on/standby) (32, 36, 76)**

Rear panel



1 **SPEAKER jacks (15)**
2 **VIDEO 2 OPTICAL DIGITAL IN jack (30)**
3 **VIDEO 1 COAXIAL IN jack (30)**
4 **VIDEO 1 VIDEO/AUDIO IN jacks (28, 30)**
5 **COMPONENT VIDEO OUT jacks (25)**
6 **MONITOR OUT (VIDEO / S VIDEO) jacks (25)**
7 **AM terminal (24)**
8 **FM 75ΩCOAXIAL jack (24)**
9 **VIDEO 2 VIDEO/AUDIO IN jacks (28, 30)**
10 **HDMI OUT jack (25)**

Remote



1 **TV (69)**

2 **DISC SKIP (36)**

3 **SOUND FIELD (60)**

4 **I◀◀/▶▶I PRESET –/+, TV CH –/+ (33, 37, 74)**

5 **▷ (play) (36)**
The ▷ button has a tactile dot.*

6 **TOP MENU (41)**

7 **←/↑/↓/→/ENTER (32, 38, 50, 60, 63, 65, 72, 77)**
←/↑/↓/→ have tactile dots.*

8 **↶ RETURN (43)**

9 **ALBUM –/+ (37, 70)**

10 **ANGLE (64)**

11 **AUDIO (58)**
The AUDIO button has a tactile dot.*

12 **SUBTITLE (64)**

13 **Number buttons (41, 65, 69)**
The number 5 button has a tactile dot.*

14 **CLEAR, -/-- (33, 38, 70)**

15 **ENTER**

16 **PROGRESSIVE, TUNER MENU (27, 73)**

17 **TV I/⏻ (on/standby) (69)**

18 **I/⏻ (on/standby) (32, 36, 74)**

19 **THEATRE SYNC (70)**

20 **TV/VIDEO, SLEEP (69, 75)**

21 **FUNCTION (27, 36, 62, 72)**

22 **◀◀/▶▶/◀I/I▶ SLOW, TUNING –/+ (51, 73)**

23 **■ (stop) (37, 65, 74)**

24 **II (pause) (37)**

25 **MUTING (37)**

26 **MENU (41)**

27 **VOLUME, TV VOL +/– (36, 74)**
The VOLUME, TV VOL + button has a tactile dot.*

28 **▭ DISPLAY (10, 33, 38, 65, 77)**

29 **←•/◀II/•→/II▶ REPLAY, ADVANCE, STEP (37)**

30 **DISPLAY (74)**

31 **DSGX (63)**

32 **PICTURE NAVI (47)**

33 **REPEAT (40)**

34 **FM MODE (74)**

35 **TV CH –/+ (69)**
The TV CH + button has a tactile dot.*

36 **TV VOL +/– (69)**

37 **MULTI/2CH (42)**

38 **SA-CD/CD (42)**

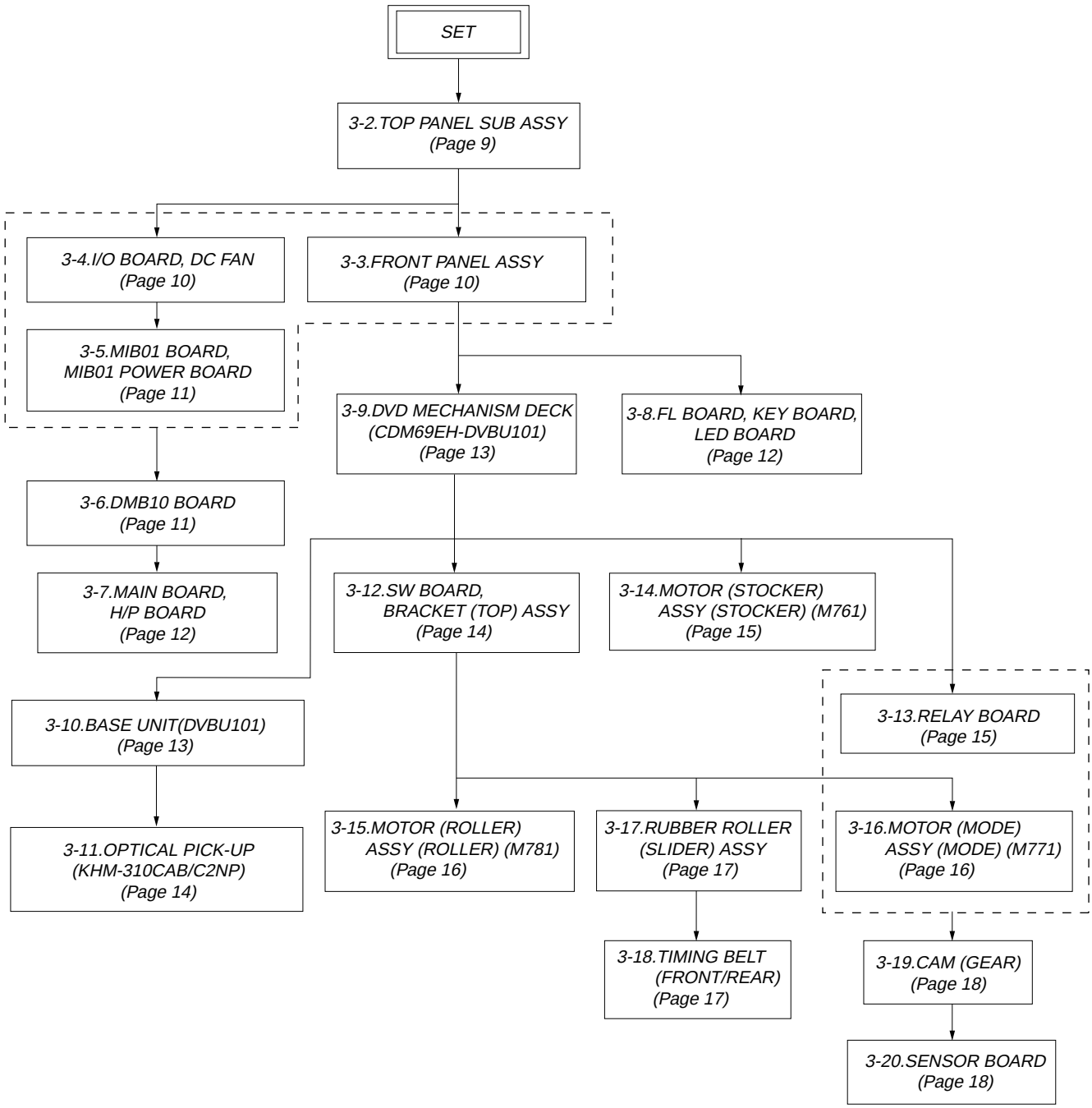
39 **AMP MENU (32, 50, 63, 72)**

* Use the tactile dot as a reference when operating the system.

SECTION 3
DISASSEMBLY

3-1. DISASSEMBLY FLOW

- This set can be disassembled in the order shown below.
- The dotted square with arrow (⊢) prompts you to move to the next job when all of the works within the dotted square (⊡) are completed.


SET
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3-12.SW BOARD, BRACKET (TOP) ASSY (Page 14)
3-14.MOTOR (STOCKER) ASSY (STOCKER) (M761) (Page 15)
3-10.BASE UNIT(DVBU101) (Page 13)
3-13.RELAY BOARD (Page 15)
3-11.OPTICAL PICK-UP (KHM-310CAB/C2NP) (Page 14)
3-15.MOTOR (ROLLER) ASSY (ROLLER) (M781) (Page 16)
3-17.RUBBER ROLLER (SLIDER) ASSY (Page 17)
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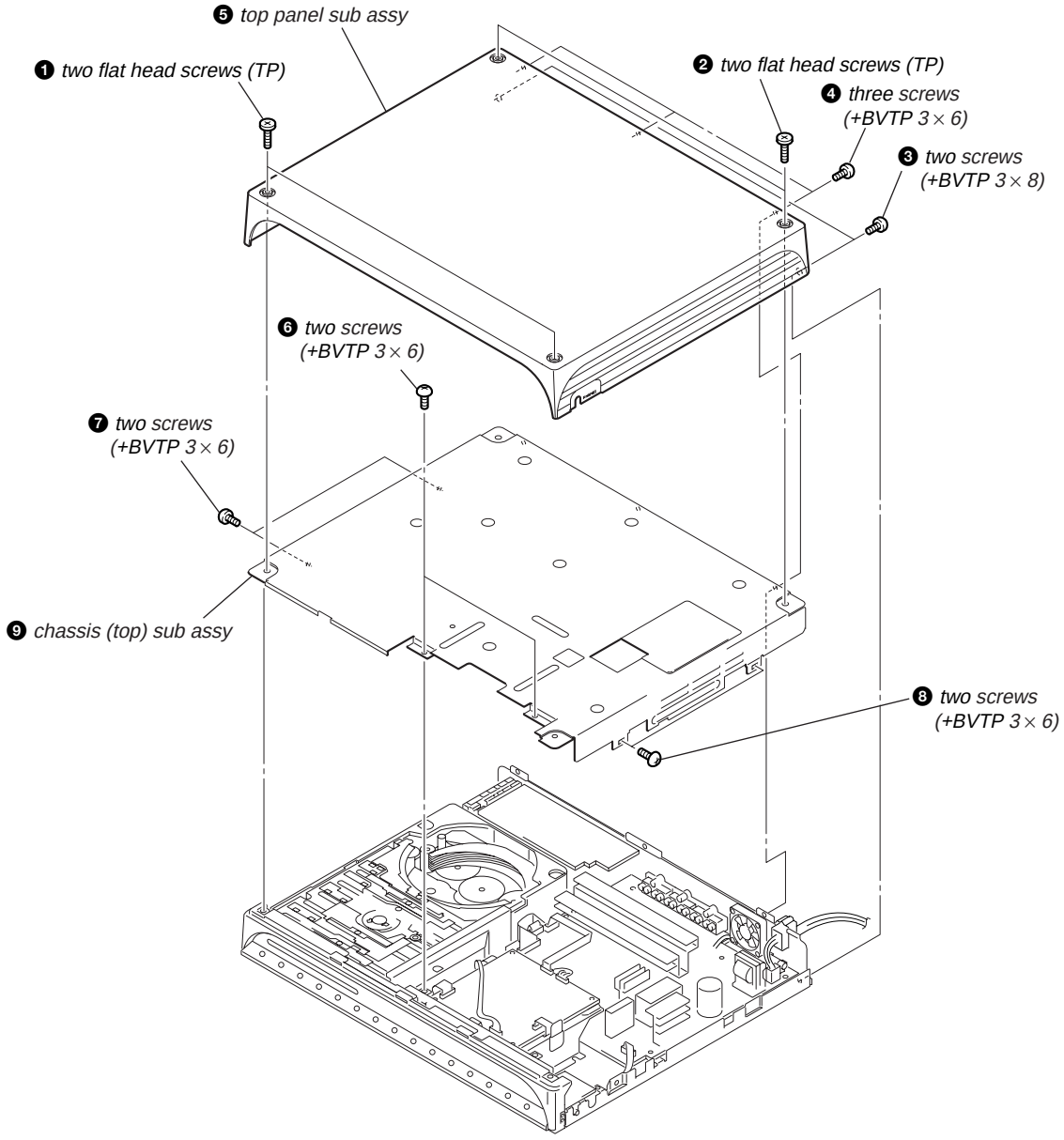
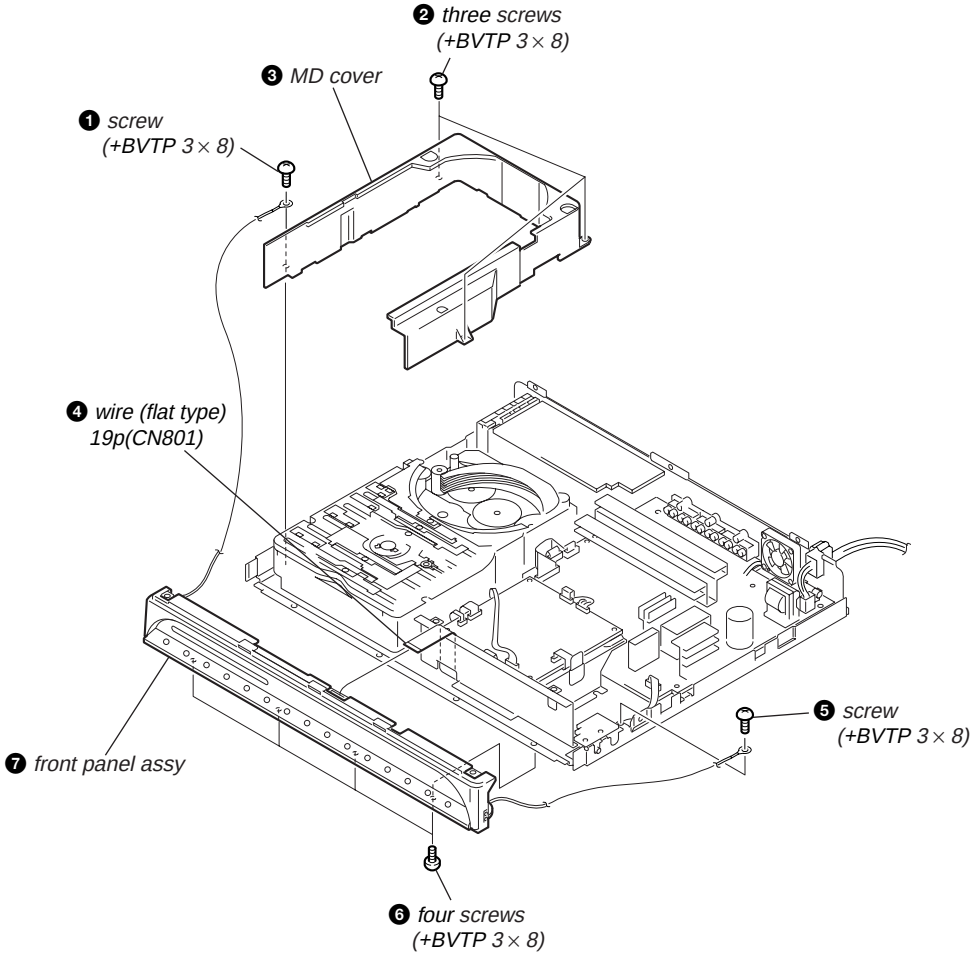
3-18.TIMING BELT (FRONT/REAR) (Page 17)
3-19.CAM (GEAR) (Page 18)
3-20.SENSOR BOARD (Page 18)

Note: Follow the disassembly procedure in the numerical order given.

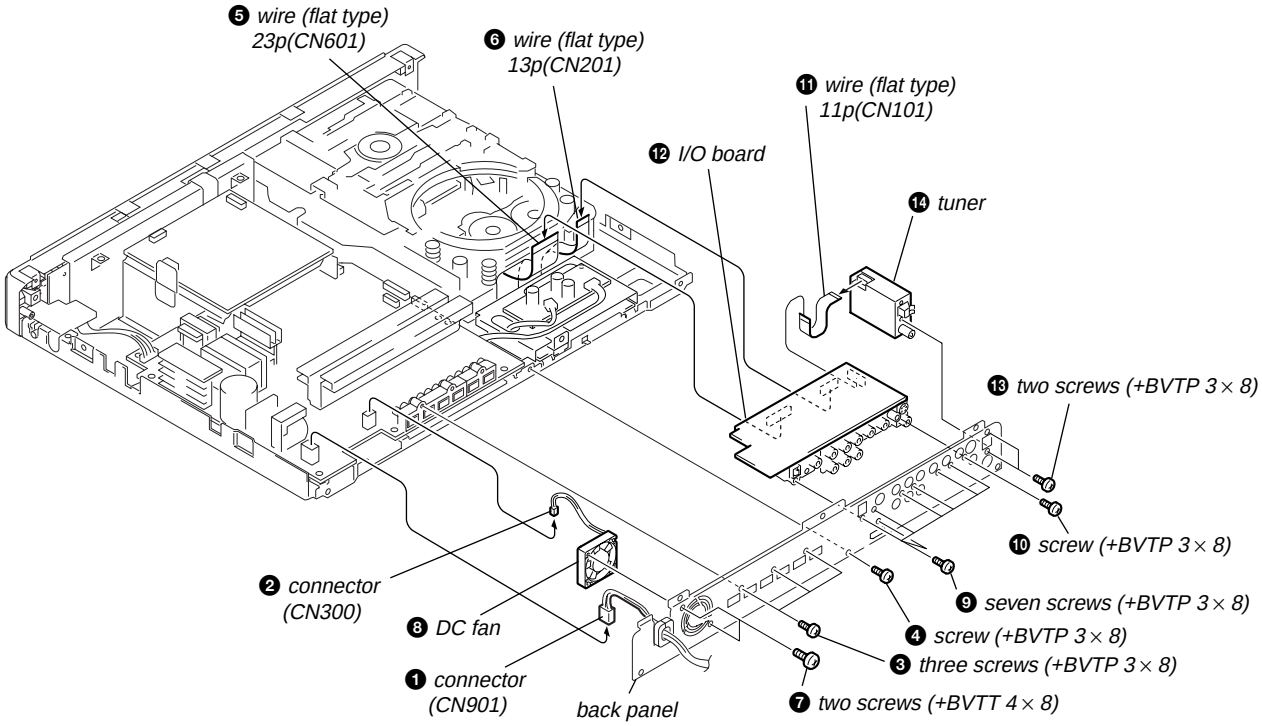
3-2. TOP PANEL SUB ASSY


❺ top panel sub assy
❶ two flat head screws (TP)
❷ two flat head screws (TP)
❹ three screws (+BVTP 3× 6)
❸ two screws (+BVTP 3× 8)
❻ two screws (+BVTP 3× 6)
❼ two screws (+BVTP 3× 6)
❾ chassis (top) sub assy
❽ two screws (+BVTP 3× 6)

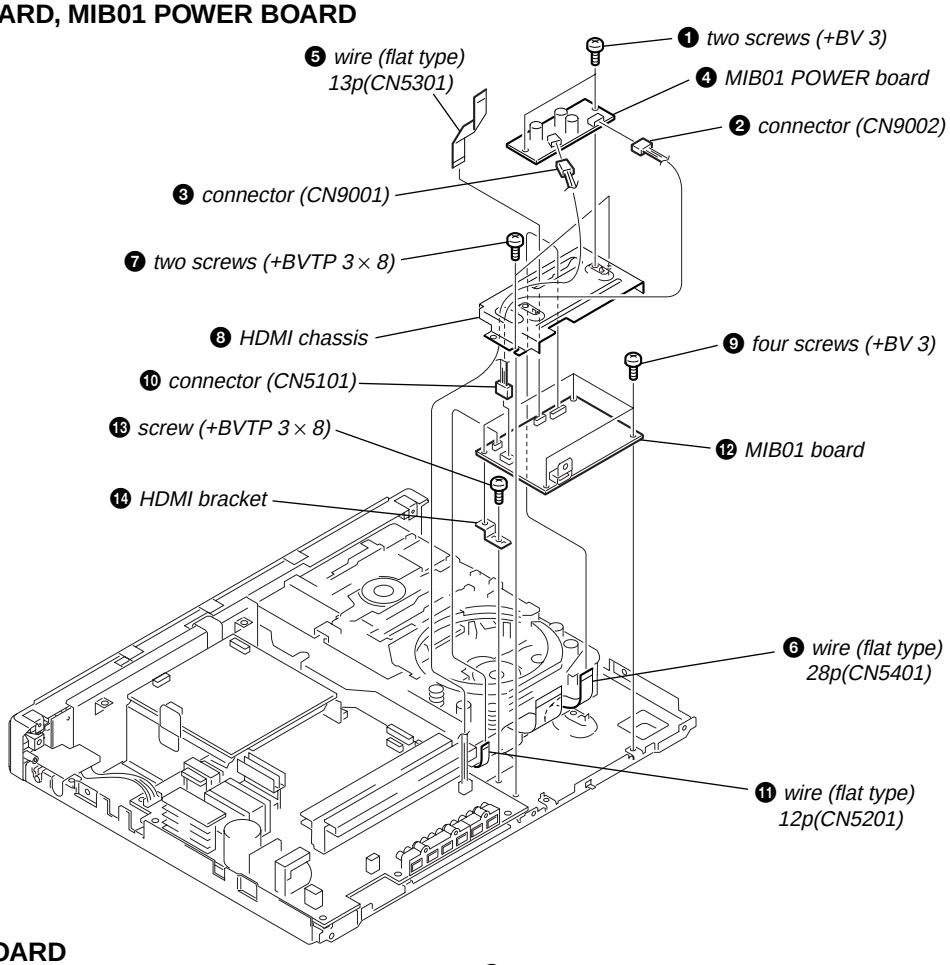
3-3. FRONT PANEL ASSY


❷ three screws (+BVTP 3× 8)
❸ MD cover
❶ screw (+BVTP 3× 8)
❹ wire (flat type) 19p(CN801)
❺ screw (+BVTP 3× 8)
❼ front panel assy
❻ four screws (+BVTP 3× 8)

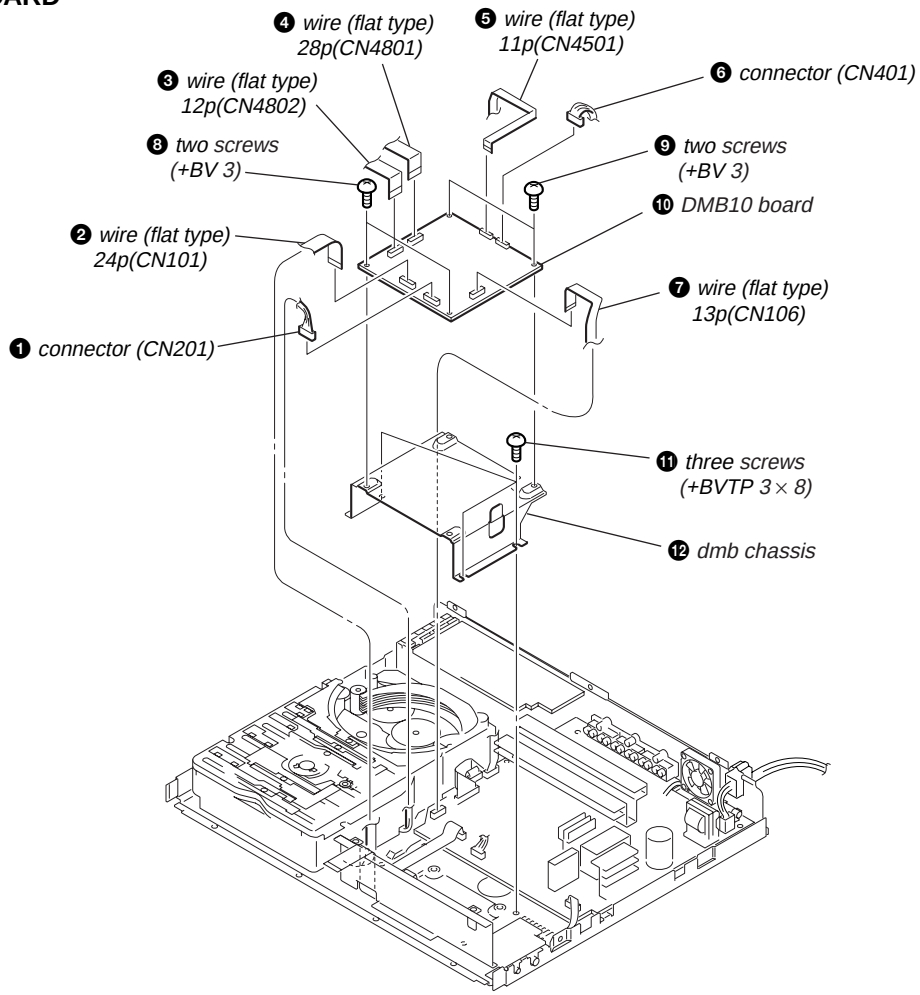
3-4. I/O BOARD, DC FAN


❺ wire (flat type) 23p(CN601)
❻ wire (flat type) 13p(CN201)
⓫ wire (flat type) 11p(CN101)
⓬ I/O board
⓮ tuner
⓭ two screws (+BVTP 3× 8)
❷ connector (CN300)
❽ DC fan
❶ connector (CN901)
back panel
⓾ screw (+BVTP 3× 8)
❾ seven screws (+BVTP 3× 8)
❹ screw (+BVTP 3× 8)
❸ three screws (+BVTP 3× 8)
❼ two screws (+BVTT 4× 8)

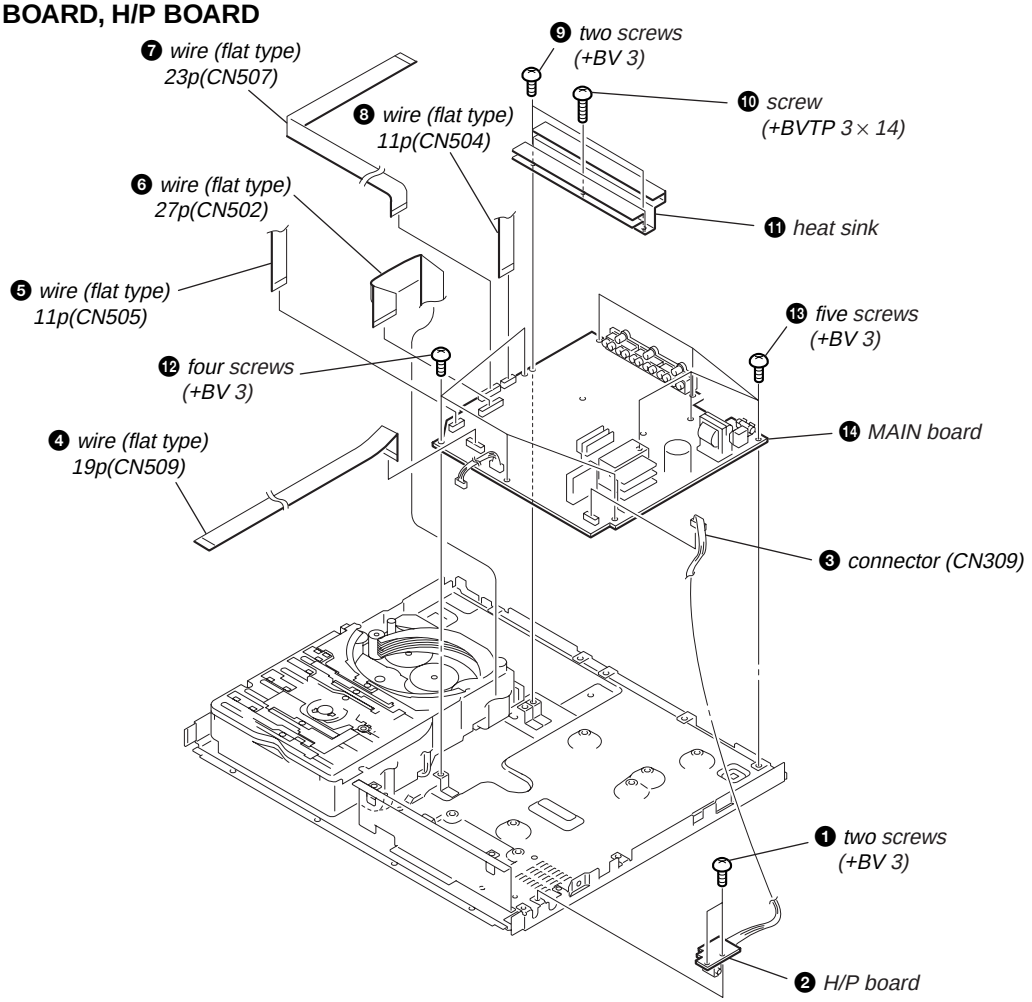
3-5. MIB01 BOARD, MIB01 POWER BOARD


❶ two screws (+BV 3)
❺ wire (flat type) 13p(CN5301)
❹ MIB01 POWER board
❷ connector (CN9002)
❸ connector (CN9001)
❼ two screws (+BVTP 3 × 8)
❽ HDMI chassis
❾ four screws (+BV 3)
❿ connector (CN5101)
⓭ screw (+BVTP 3 × 8)
⓬ MIB01 board
⓮ HDMI bracket
❻ wire (flat type) 28p(CN5401)
⓫ wire (flat type) 12p(CN5201)

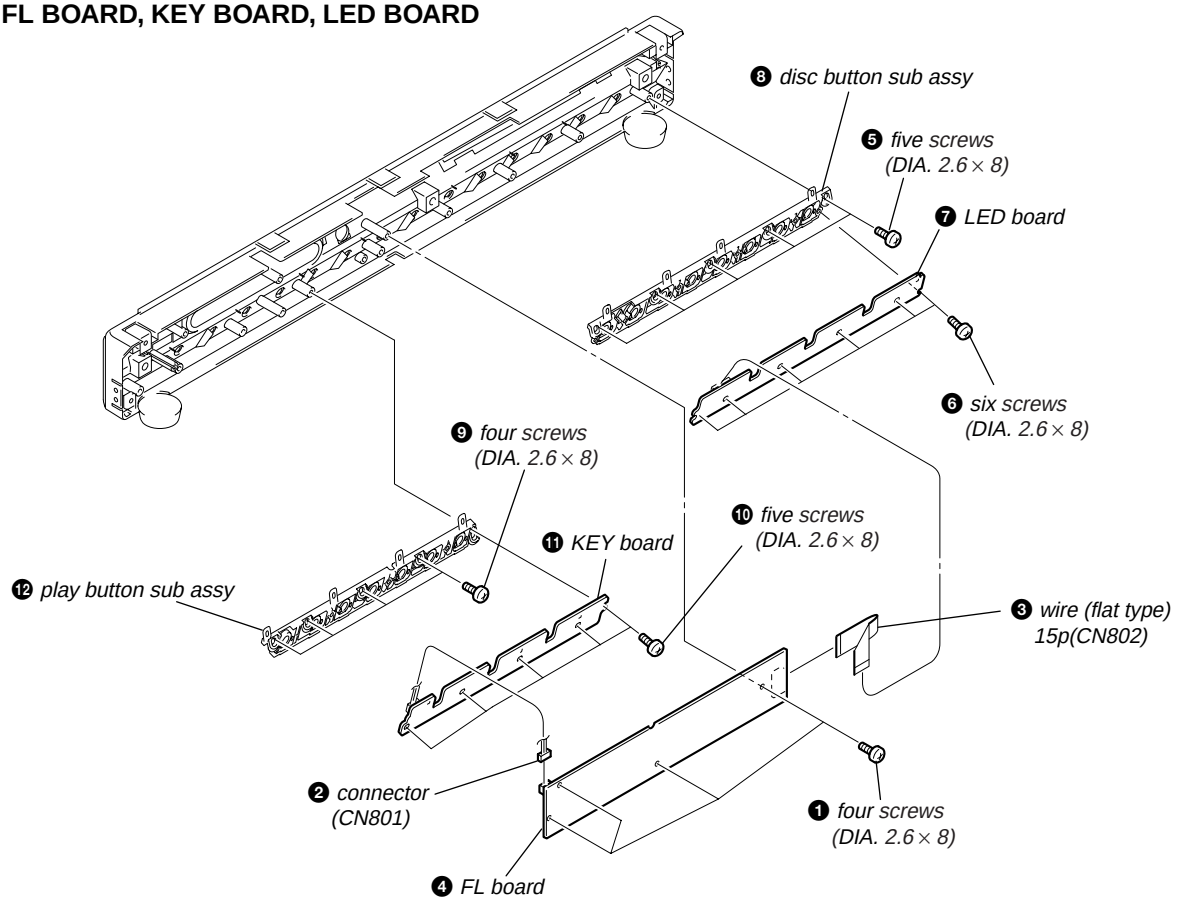
3-6. DMB10 BOARD


❹ wire (flat type) 28p(CN4801)
❺ wire (flat type) 11p(CN4501)
❸ wire (flat type) 12p(CN4802)
❻ connector (CN401)
❽ two screws (+BV 3)
❾ two screws (+BV 3)
❿ DMB10 board
❷ wire (flat type) 24p(CN101)
❼ wire (flat type) 13p(CN106)
❶ connector (CN201)
⓫ three screws (+BVTP 3 × 8)
⓬ dmb chassis

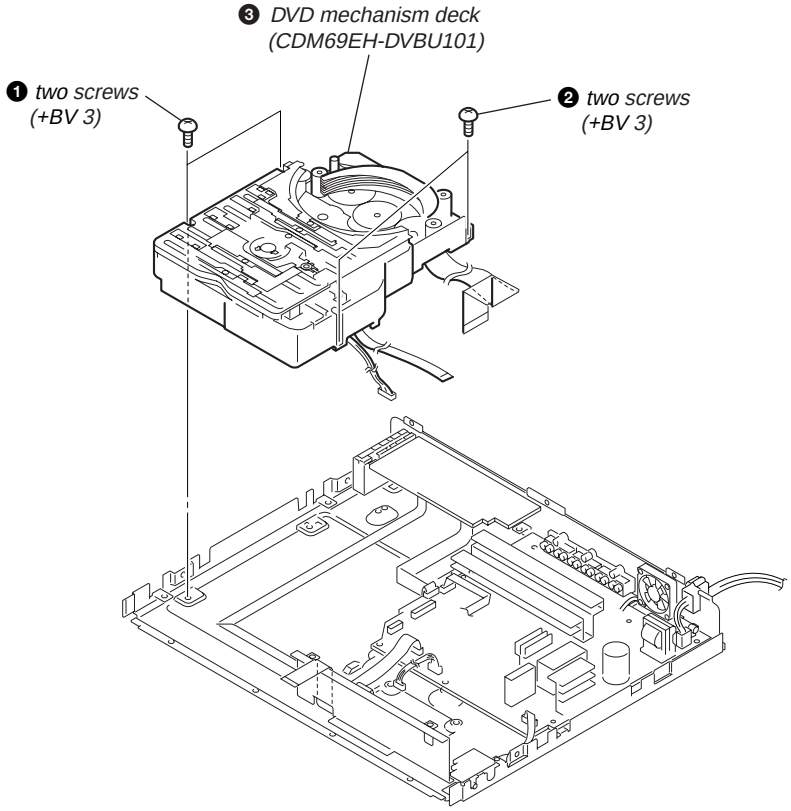
3-7. MAIN BOARD, H/P BOARD


❼ wire (flat type) 23p(CN507)
❾ two screws (+BV 3)
❿ screw (+BVTP 3 × 14)
❽ wire (flat type) 11p(CN504)
❻ wire (flat type) 27p(CN502)
⓫ heat sink
❺ wire (flat type) 11p(CN505)
⓭ five screws (+BV 3)
⓬ four screws (+BV 3)
❹ wire (flat type) 19p(CN509)
⓮ MAIN board
❸ connector (CN309)
❶ two screws (+BV 3)
❷ H/P board

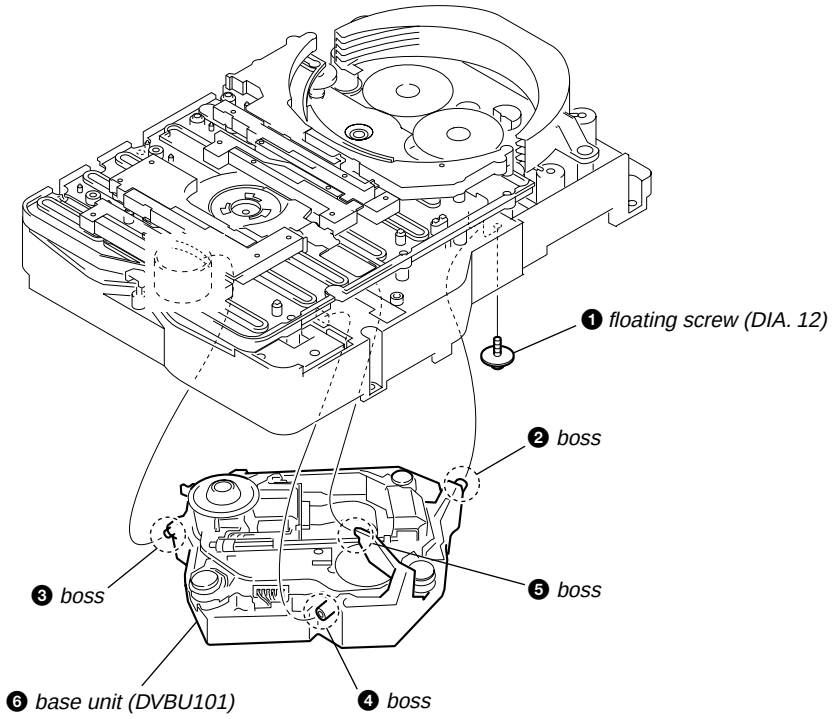
3-8. FL BOARD, KEY BOARD, LED BOARD


❽ disc button sub assy
❺ five screws (DIA. 2.6 × 8)
❼ LED board
❻ six screws (DIA. 2.6 × 8)
❾ four screws (DIA. 2.6 × 8)
⓫ KEY board
❿ five screws (DIA. 2.6 × 8)
⓬ play button sub assy
❸ wire (flat type) 15p(CN802)
❷ connector (CN801)
❶ four screws (DIA. 2.6 × 8)
❹ FL board

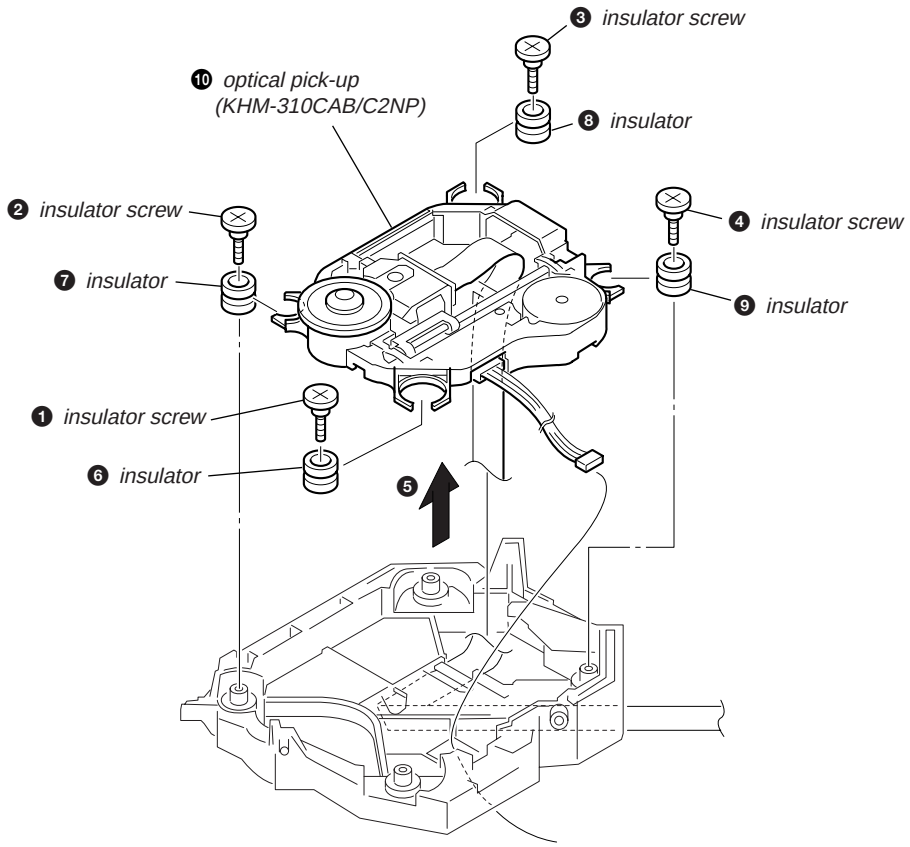
3-9. DVD MECHANISM DECK (CDM69EH-DVBU101)



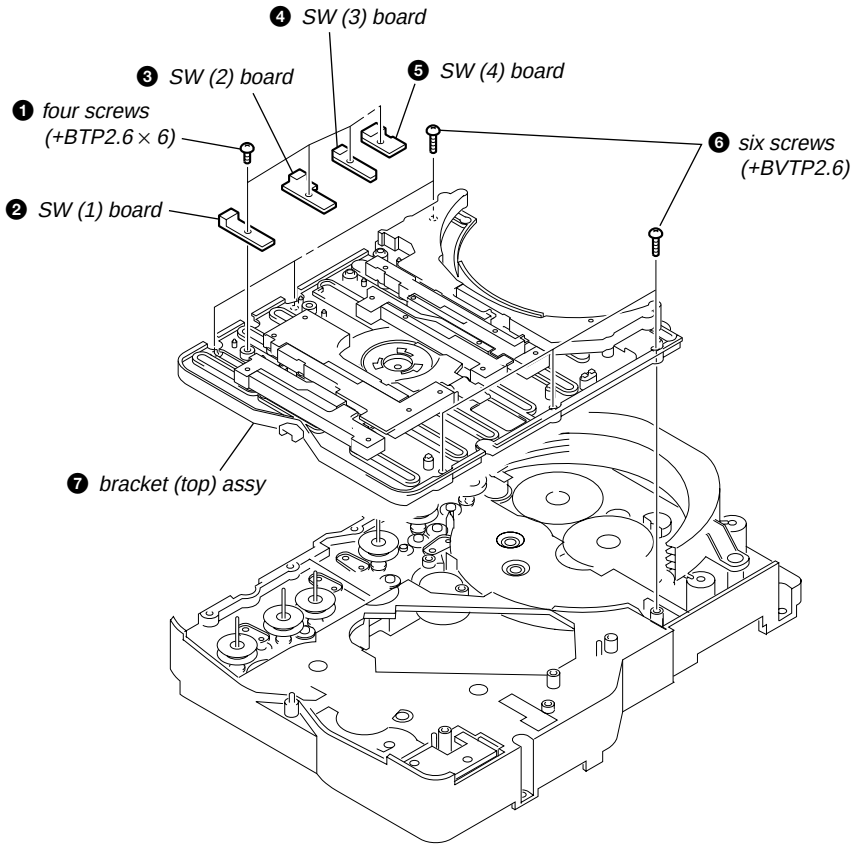
3-10. BASE UNIT (DVBU101)



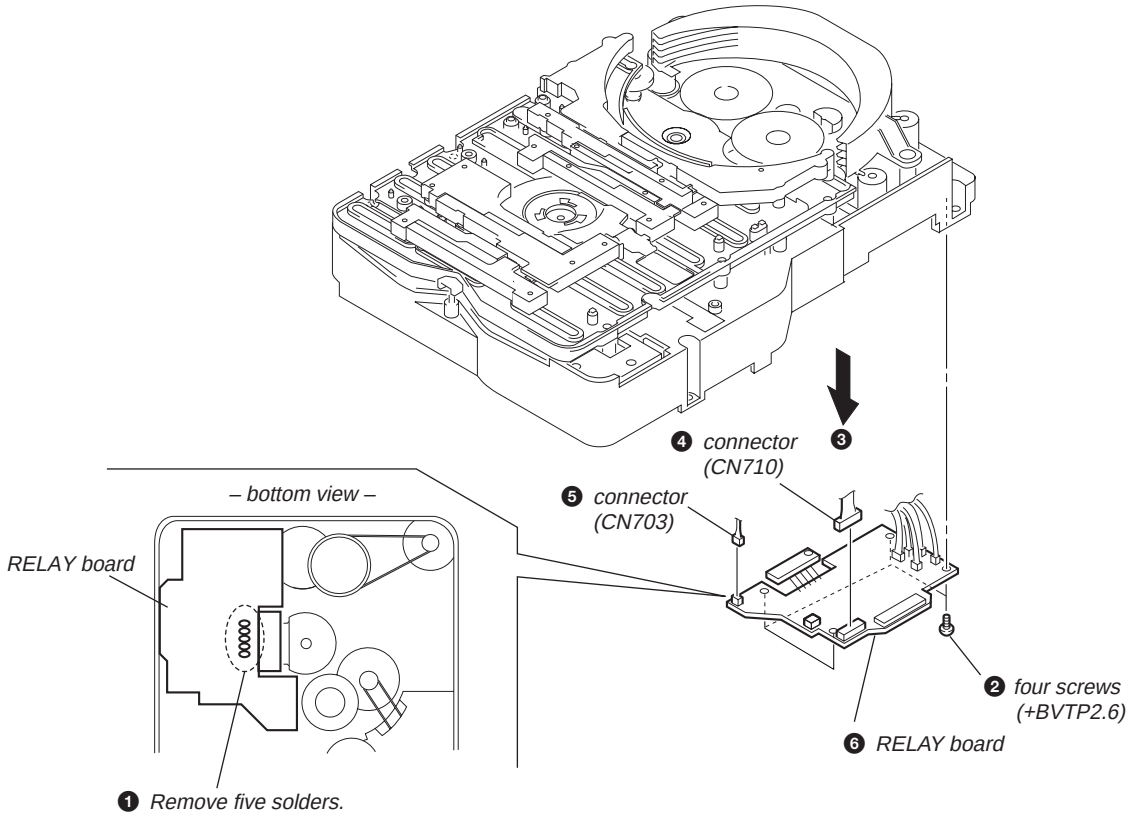
3-11. OPTICAL PICK-UP (KHM-310CAB/C2NP)



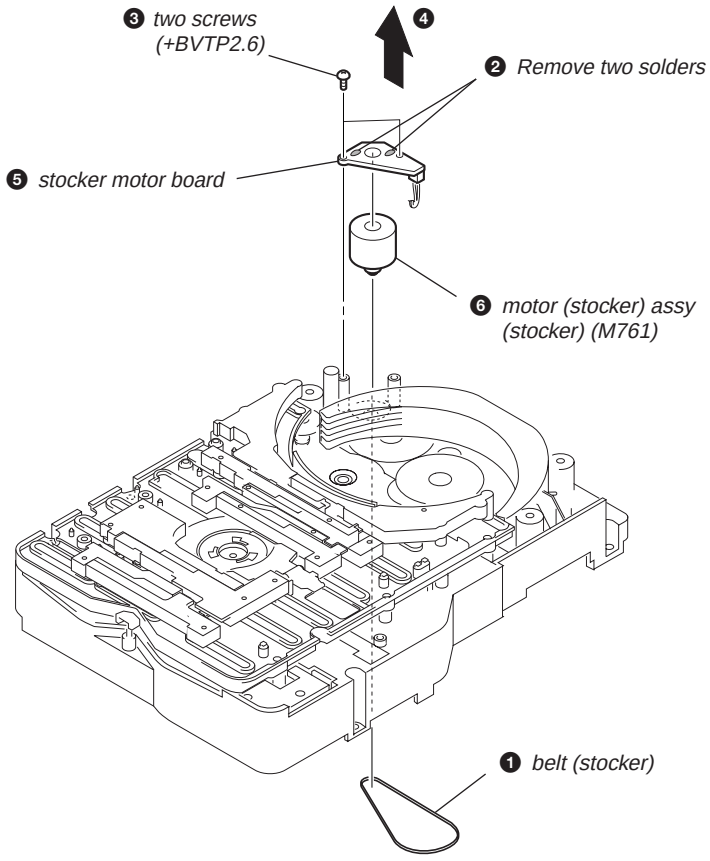
3-12. SW BOARD, BRACKET (TOP) ASSY



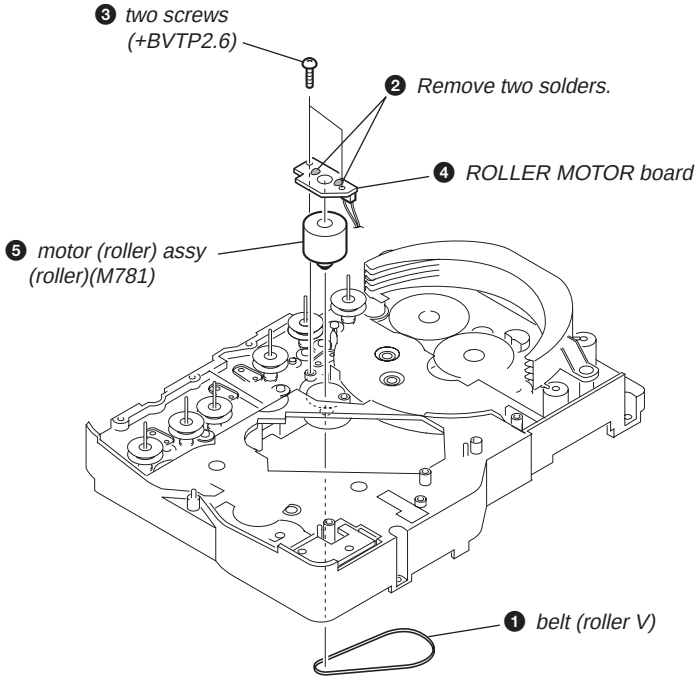
3-13. RELAY BOARD



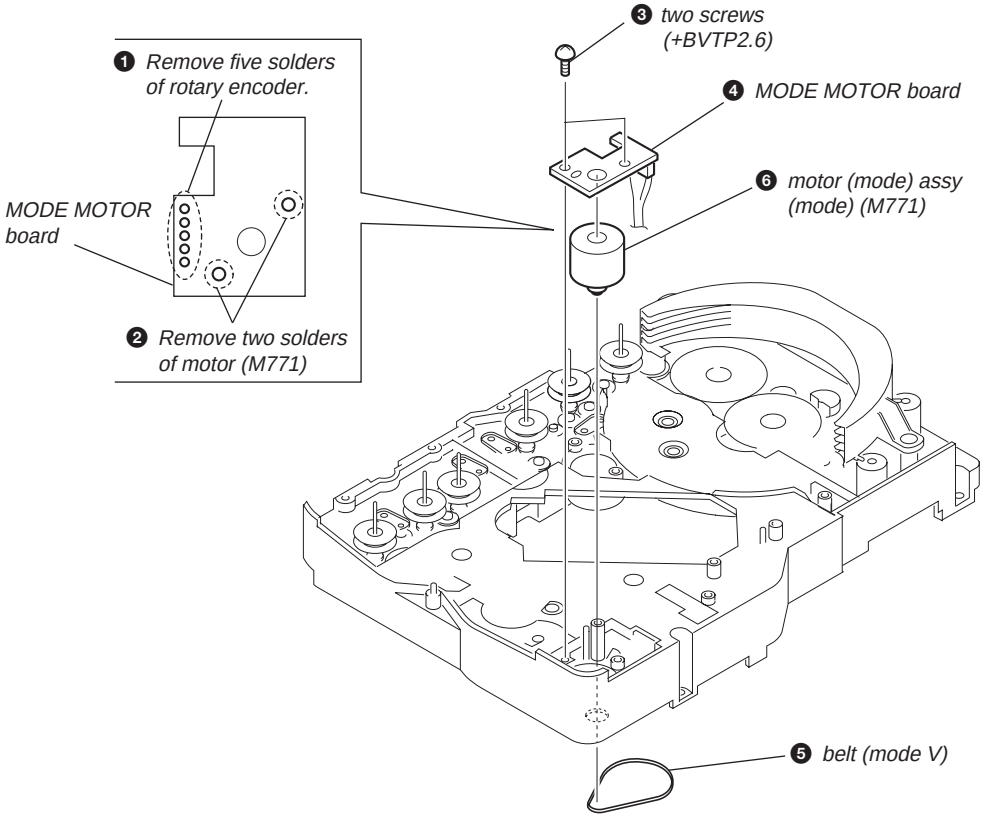
3-14. MOTOR (STOCKER) ASSY (STOCKER)(M761)



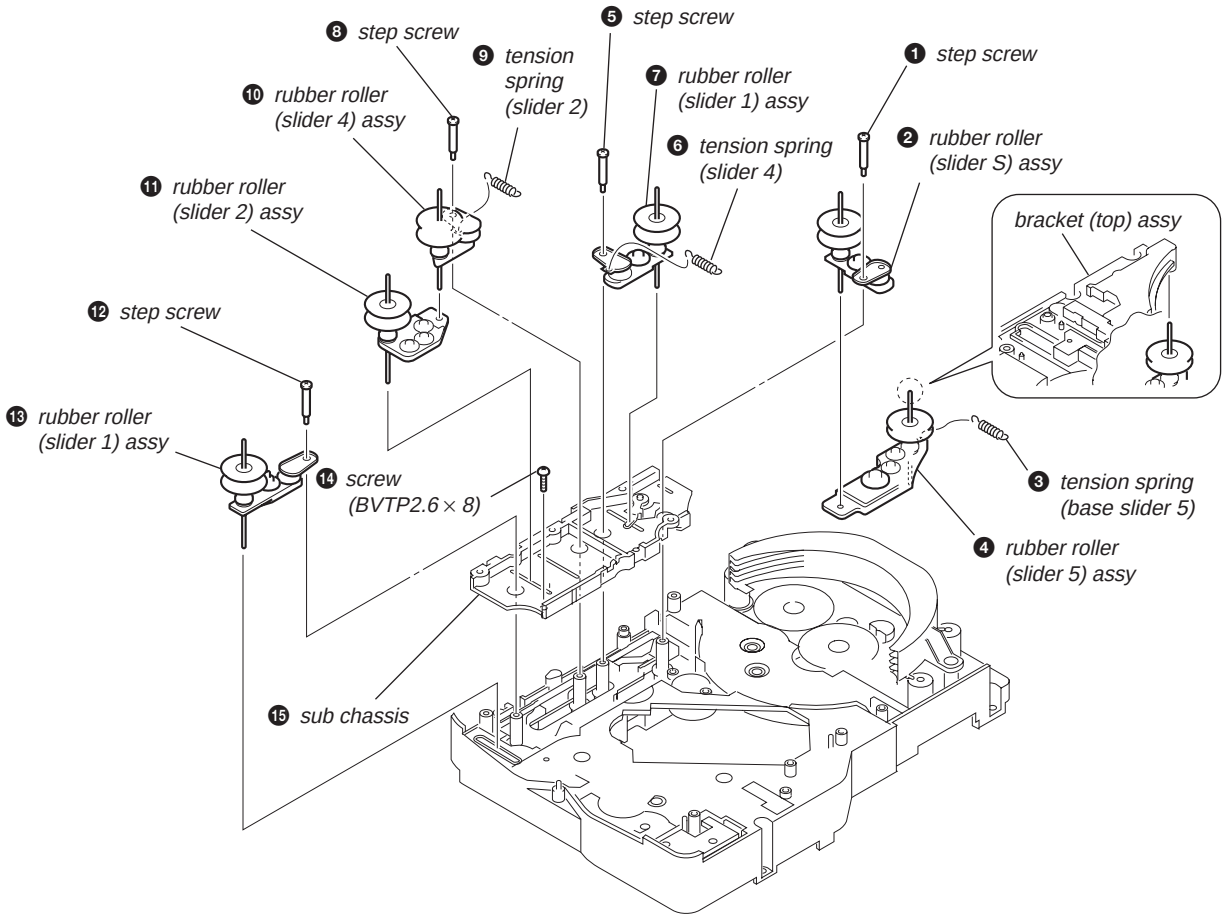
3-15. MOTOR (ROLLER) ASSY (ROLLER)(M781)



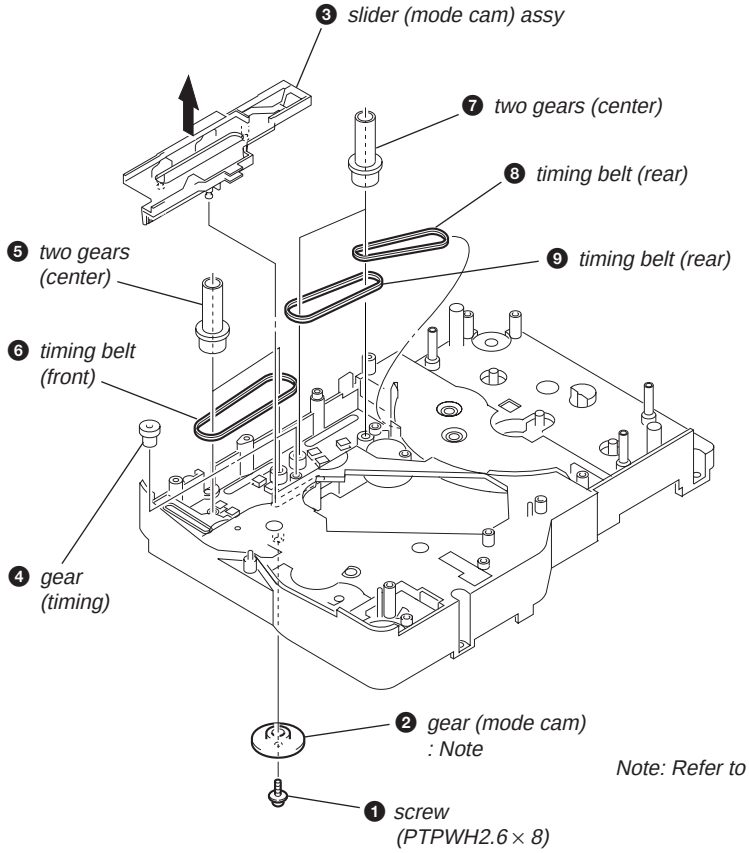
3-16. MOTOR (MODE) ASSY (MODE)(M771)



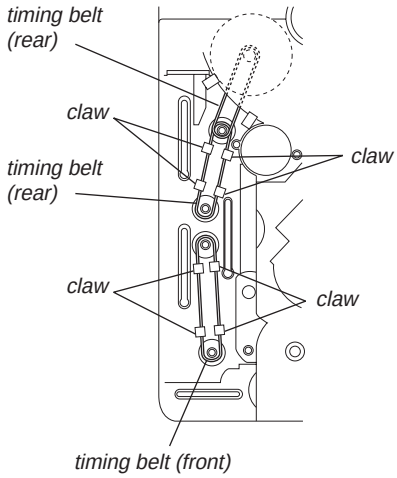
3-17. RUBBER ROLLER (SLIDER) ASSY


❽ step screw
❾ tension spring (slider 2)
❺ step screw
❼ rubber roller (slider 1) assy
❶ step screw
❿ rubber roller (slider 4) assy
❻ tension spring (slider 4)
❷ rubber roller (slider S) assy
⓫ rubber roller (slider 2) assy
bracket (top) assy
⓬ step screw
⓭ rubber roller (slider 1) assy
⓮ screw (BVTP2.6 × 8)
❸ tension spring (base slider 5)
❹ rubber roller (slider 5) assy
⓯ sub chassis

3-18. TIMING BELT (FRONT/REAR)

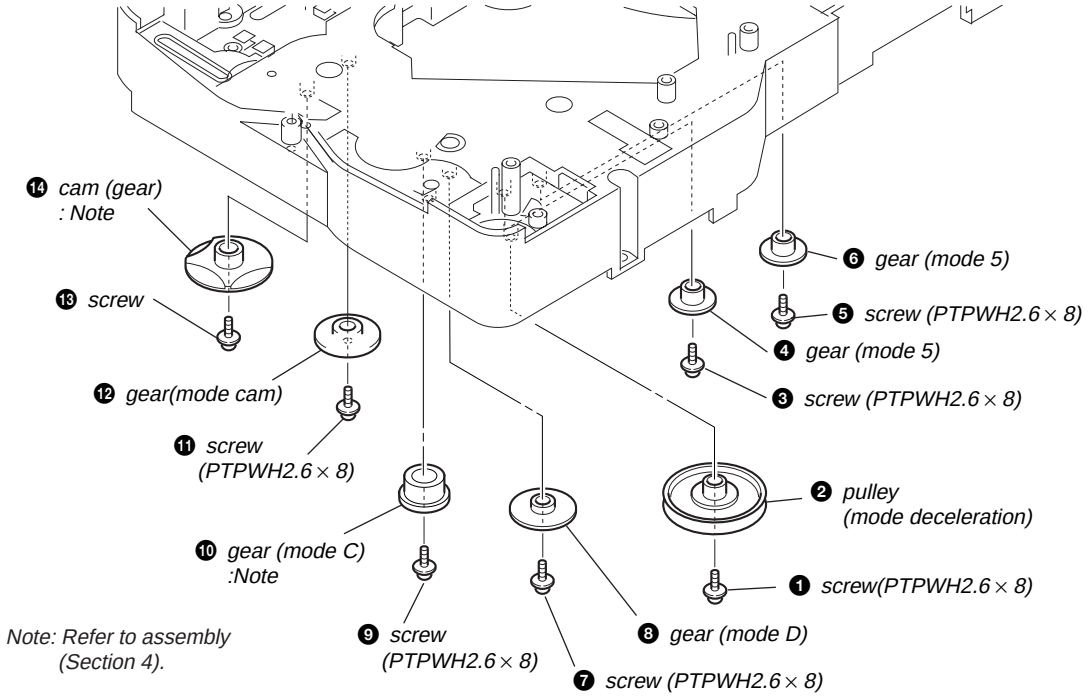

❸ slider (mode cam) assy
❼ two gears (center)
❽ timing belt (rear)
❺ two gears (center)
❾ timing belt (rear)
❻ timing belt (front)
❹ gear (timing)
❷ gear (mode cam) : Note
❶ screw (PTPWH2.6 × 8)

When install three timing belts, its pass under each claws.

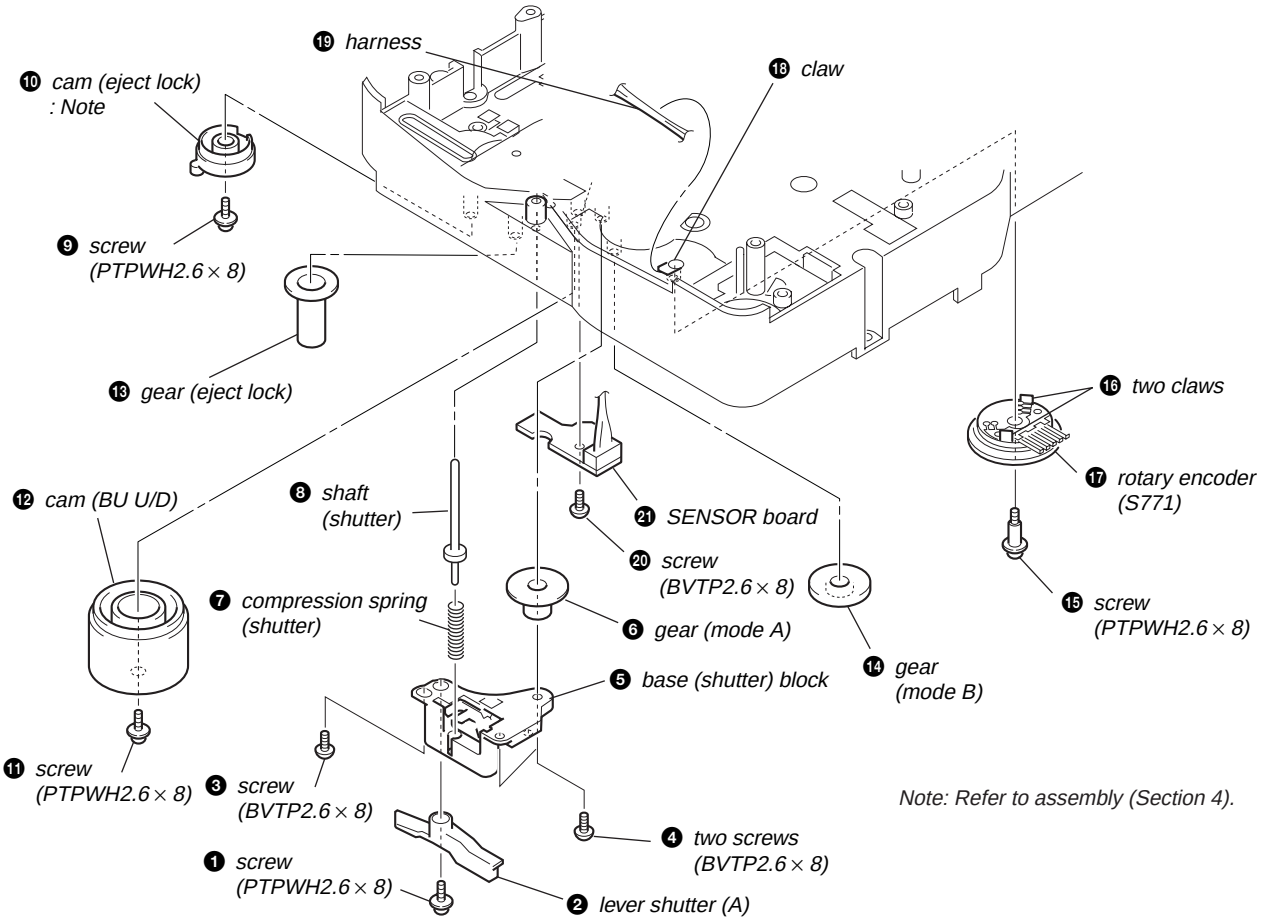


Note: Refer to assembly (Section 4)

3-19. CAM (GEAR)



3-20. SENSOR BOARD

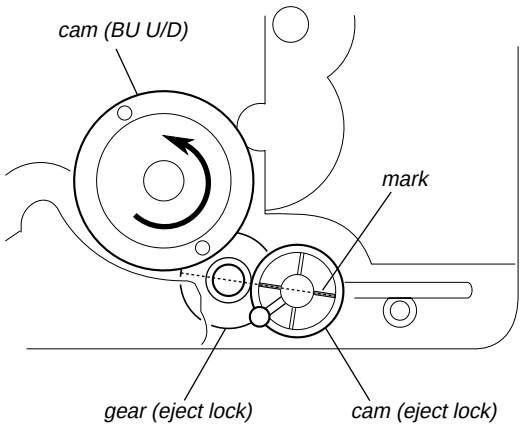


SECTION 4
ASSEMBLY

- This set can be assembled in the order shown below.

4-1. HOW TO INSTALL THE CAM (EJECT LOCK)

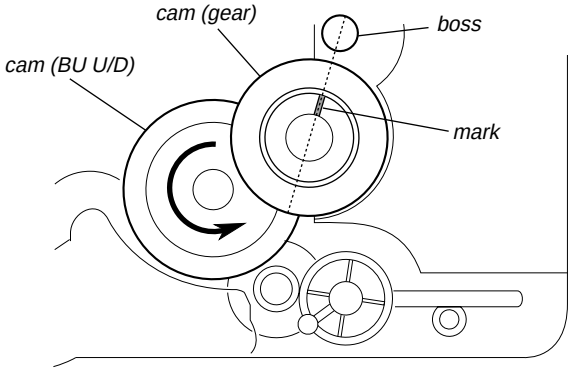
❶ *Rotate the cam (BU U/D) fully in the direction of arrow.*
❷ *Engage the gear (eject lock) and the gear of the cam (eject lock) aligning the mark with the center of the gear (eject lock).*



– bottom view • front –

4-2. HOW TO INSTALL THE CAM (GEAR)

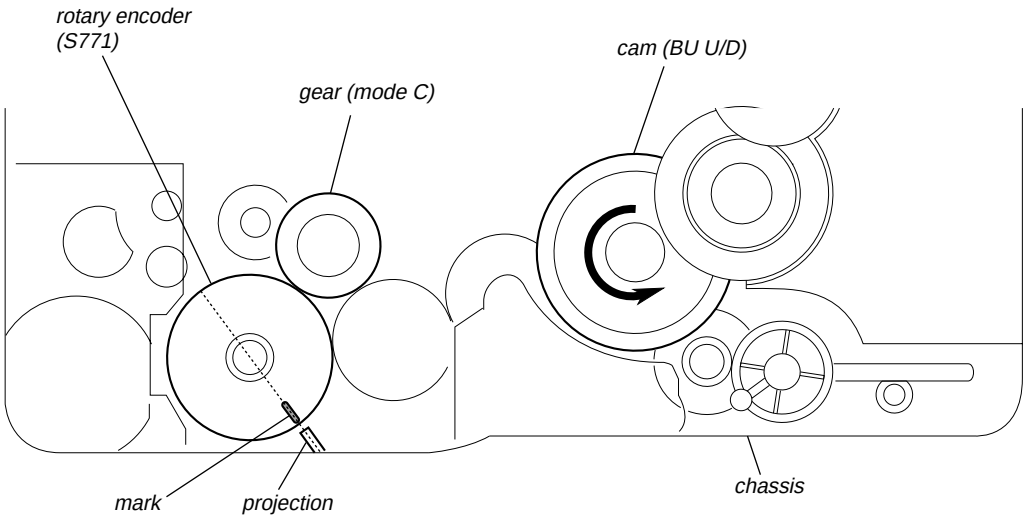
❶ *Check that the cam (BU U/D) can not be rotated in the direction of arrow.*
❷ *Align the mark on the cam (gear) with the boss as shown in the figure and install the cam (gear).*



– bottom view • front –

4-3. HOW TO INSTALL THE GEAR (MODE C)

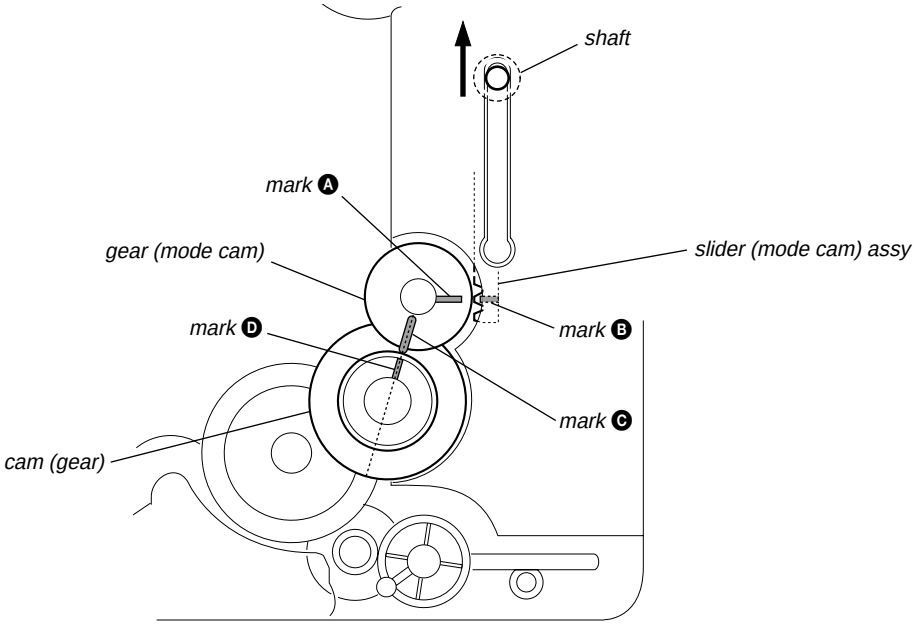
❶ *Align the mark on the rotary encoder (S771) with the projection of the assy.*
❷ *Check that the cam (BU U/D) can not be rotated in the direction of arrow.*
❸ *Install the gear (mode C)*



– bottom view • front –

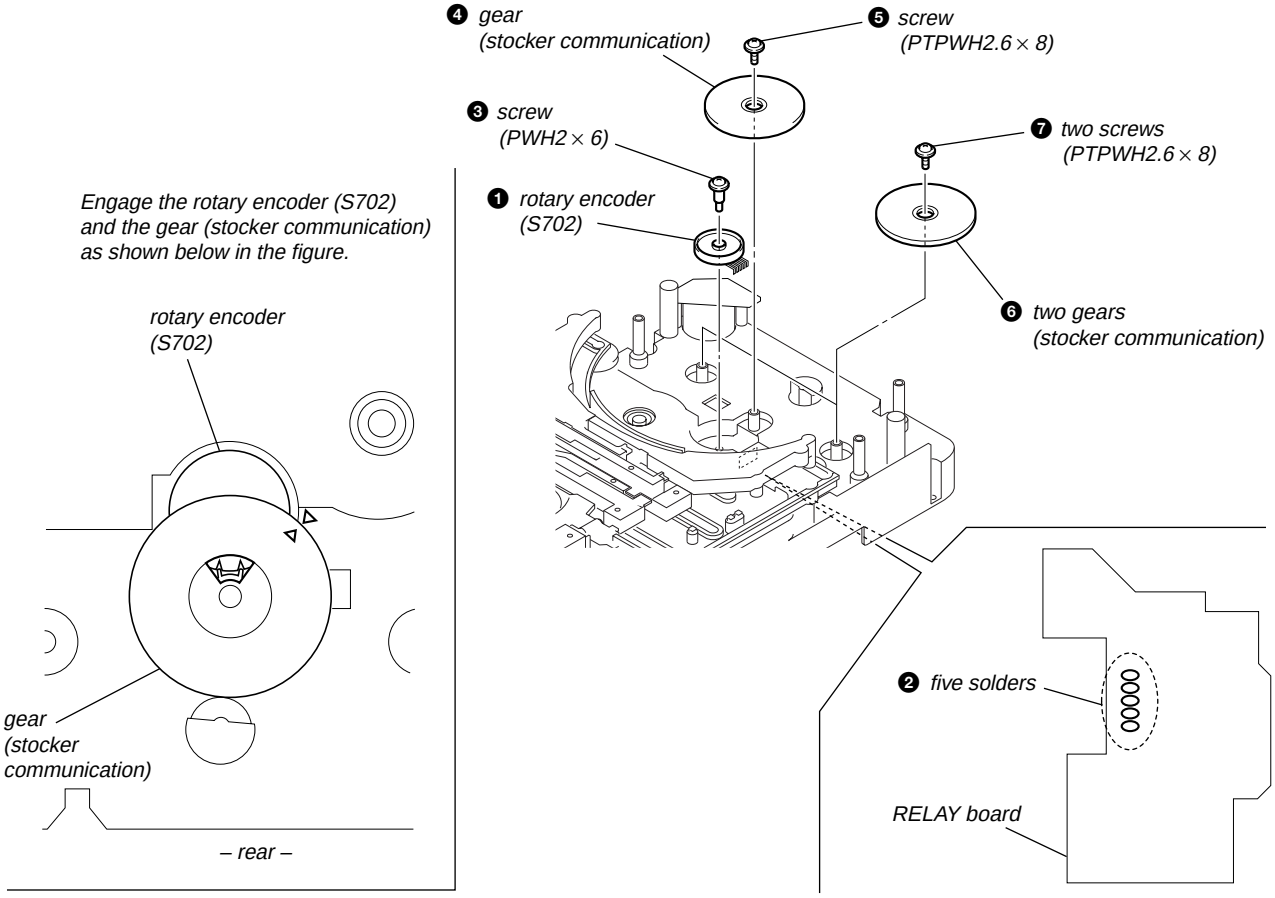
4-4. HOW TO INSTALL THE GEAR (MODE CAM)

❶ *Slide the shaft in the direction of arrow.*
❷ *Align mark Ⓐ on the gear (mode cam) with mark Ⓑ on the slider (mode cam) assy, then install the gear (mode cam).*
❸ *Check that mark Ⓒ on the gear (mode cam) is in alignment with mark Ⓓ on the cam (gear).*

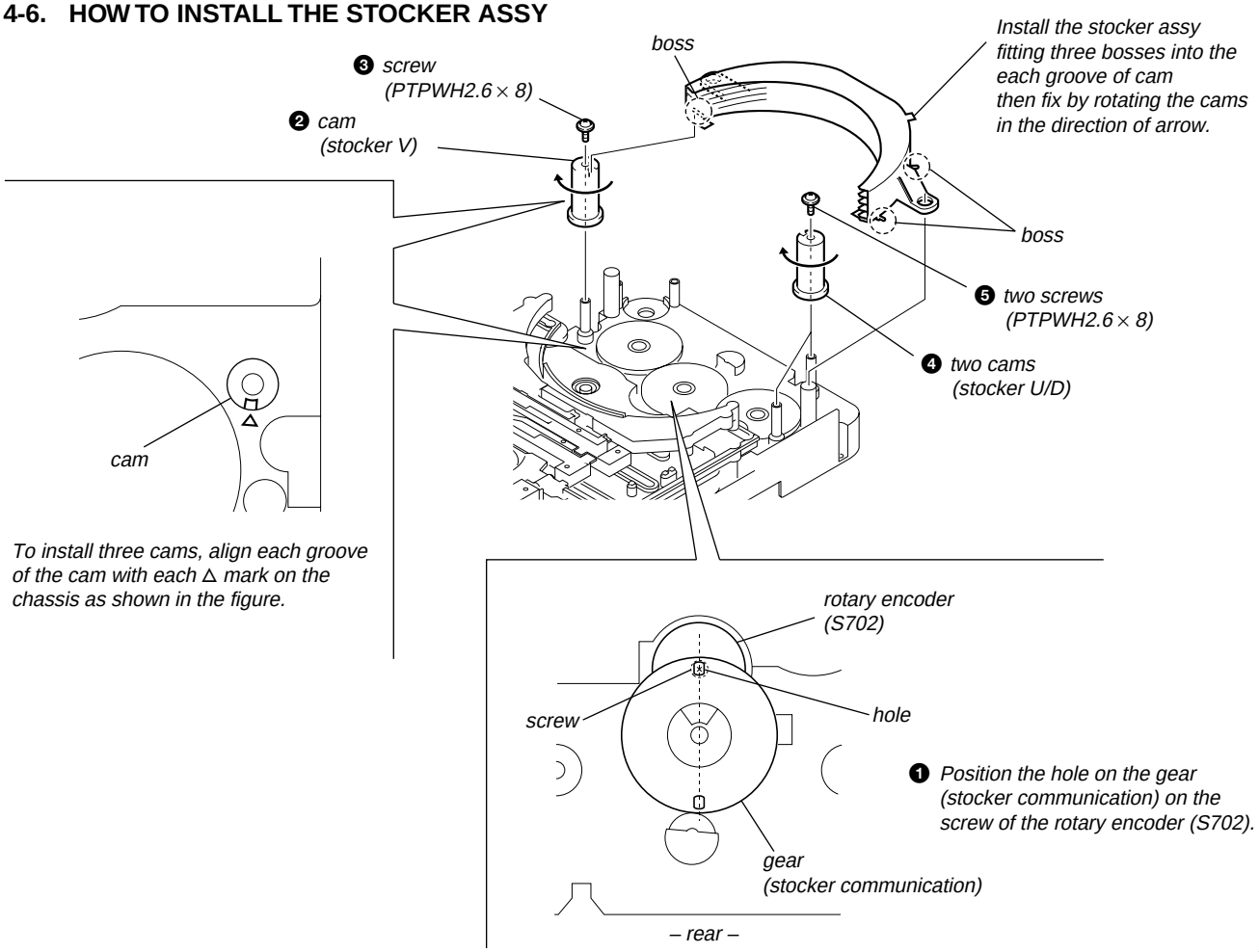


– bottom view • front –

4-5. HOW TO INSTALL THE ROTARY ENCORDER (S702), GEAR (STOCKER COMMUNICATION)



4-6. HOW TO INSTALL THE STOCKER ASSY


❸ screw
(PTPWH2.6 × 8)
❷ cam
(stocker V)
boss
Install the stocker assy fitting three bosses into the each groove of cam then fix by rotating the cams in the direction of arrow.
boss
❺ two screws
(PTPWH2.6 × 8)
❹ two cams
(stocker U/D)
cam
To install three cams, align each groove of the cam with each △ mark on the chassis as shown in the figure.
rotary encoder
(S702)
screw
hole
❶ Position the hole on the gear (stocker communication) on the screw of the rotary encoder (S702).
gear
(stocker communication)
– rear –

SECTION 5
TEST MODE

Note 1: Regarding the notification symbol “R”
Because the number of the operating buttons of this product are limited, some operations require use of the operating buttons of the remote commander, When a specific operation requires use of the operating buttons of the remote commander, “R” is added to the specific operating procedure in this manual. Example [MENU/NO “R”] The [MENU/NO] button of remote commander.

Note 2: Incorrect operations may be performed if the test mode is not entered properly.
In this case, press the [I/⏻] button to turn the power off, and retry to enter the test mode.

1. Cold Reset

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customers.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons [■] , [⏏] and [I/⏻] simultaneously.
3. When this button is operated, display as “COLD RESET” for a while and all of the settings are reset.

2. Panel Test Mode

- This mode is used to check the software version, LCD, LED and keyboard.

2-1. DVD LED Test Mode

Procedure:

1. Press the [I/⏻] button to turn on the power.
2. Press three bottons [❚❚], [⏮] and [⏏] simultaneously.
3. When the display LED test mode is activated, all segments are turned on.
4. To exit from this mode, pull out the AC plug.

2-2. Version Test Mode

Procedure:

1. When the panal test mode is activated, press the [⏮] button and the message “GC7H✱✱✱” is displayed, the version test mode is activated.
2. Whenever press the [⏮] button, the version is displayed in order of NA, MC, SYS, UI, DVD, CDMA, CDMB, ST005, TA, TM and GC4.
3. Press the [⏭] button and the date of the softwafe production is displayed.
4. Press the [⏭] button again and the version is displayed.
5. To exit from this mode, pull out the AC plug.

2-3. Key Test Mode

Procedure:

1. When the panel test mode is activated, press the [▷] button, to select the key test mode.
2. To enter the KEY test mode, the fluorecent indicator displays “K0”. Each time a button is pressed, “KEY” value increases. However, once a button is pressed, it is no longer taken into account. When all keys are pressed correctly, “K15” is displayed.
3. To exit from this mode, pull out the AC plug.

3. Disc Tray Lock

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

1. Press the [I/⏻] button to turn the set on.
2. Press the [FUNCTION] button to set DVD function.
3. Insert a disc.
4. Press the [■] button and the [⏏] button simultaneously for five seconds.
5. The message “LOCKED” is displayed and the tray is locked.

Releasing Procedure :

1. Press the [■] button and the [⏏] button simultaneously for five seconds. again.
2. The message “UNLOCKED” is displayed and the tray is unlocked.

Note: When “LOCKED” is displayed, the slot lock is not released by turning power on/off with the [I/⏻] button.

4. DVD Ship Mode

- Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the [I/⏻] button to turn the set on.
2. Press the [FUNCTION] button to set the function “DVD”.
3. Press three buttons [■], and [I/⏻] simultaneously.
4. After a message “MECHA LOCK” is displayed on the fluorescent indicator tube, pull out the AC plug.
5. To exit from this mode, press the [I/⏻] button to turn the set on.

5. DVD Debug In Mode

Procedure:

1. Press the [I/⏻] button to turn the set on.
2. Press the [FUNCTION] button to set the function “DVD”.
3. Press the three buttons [⏮], [⏏] and [⏭] simultaneously.
4. To exit from this mode, press the [I/⏻] button to turn the set on.

6. AM Step Change

- A step of AM channels can be changed over between 9 kHz and 10 kHz.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Select the function “TUNER”, and press [FUNCTION] button to select the BAND “AM”.
3. Press [I/⏻] button to turn the set OFF.
4. Press [⏭] and [I/⏻] buttons simultaneously, and the display of fluorescent indicator tube changes to “AM 9 k STEP” or “AM 10 k STEP”, and thus the channel step is changed over.

DVD SECTION

[TEST DISC LIST]

Be sure to use the DVD disc that matches the signal standards of your region.

• CD
YEDS-18 (Part No.: 3-702-101-01)
PATD-012 (Part No.: 4-225-203-01)
• DVD SL (Single Layer)
NTSC : HLX-503 (Part No.: J-6090-069-A)
HLX-504 (Part No.: J-6090-088-A)
PAL : HLX-506 (Part No.: J-6090-077-A)
• DVD DL (Dual Layer)
NTSC : HLX-501 (Part No.: J-6090-071-A)
HLX-505 (Part No.: J-6090-089-A)
PAL : HLX-507 (Part No.: J-6090-078-A)

4-1. GENERAL DESCRIPTION

The Mirror Time and IOP measurement allows you to make diagnosis and adjustment simply by using the remote commander and monitor TV. The instructions, diagnosis results, etc. are given on the on screen display (OSD).

The Mirror Time and IOP measurement is required is such events where servicing a DVD-Player includes changing the Base Unit (BU). For each new BU to be used with a certain MV-044 board, Mirror Time and IOP measurement need to be carried out.

4-2. STARTING TEST MODE

Press three buttons ■ , ⏏ and VOLUME + simultaneously with the DVD player in standby mode.
The Test Mode starts, then the menu shown below will be displayed on the TV screen.

```
Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History
4. Version Information
5. Video Level Adjustment

Model Name : GC7H_XX
IF-con     : Ver. xx.xx (xxxx)
Syscon     : Ver. x.xxx
```

The menu above is the Remocon Diagnosis Menu screen which consists of six main function. At the bottom of the menu screen, the model name and IF-con version. To enter Mirror Time Adjustment menu, press button 2 “R” on the remote commander to enter Drive Manual Operation menu. To exit from the Test Mode, press the power button on the remote commander.

4-3. DRIVE MANUAL OPERATION

The Drive Manual Operation menu consists of five main function. By pressing 2 “R” button on the remote commander in the Remocon Diagnosis Menu, the screen will appear as below.

```
Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Mecha test mode
5. MIRR time Adjust
0. Return to Top Menu
```

4-4. MIRROR TIME ADJUSTMENT

To enter Mirror Time Adjustment, press 5 “R” button on the remote commander. The screen will appear as below.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:
3. Threshold:
4. Save to EEPROM
5. Default set MIRR time

[Open] Tray open [Close] Tray close
[0] Return to previous menu
```

There are five main commands in the Mirr time Adjust menu as shown in the figure above. The functions of each command are described in the following page.

1. CD MIRR time Check
This command checks the Mirror time value for CD disc.

2. DVD MIRR time Check
This command checks the Mirror time value for DVD disc.

3. Threshold
This command displays the threshold value between CD and DVD mirror time.

4. Save to EEPROM
This command saves an adjusted mirror time value to the EEPROM.

5. Default set MIRR time
This command will set CD and DVD mirror time to firmware default value.

[Open] / [Close]
Pressing the ⏏ button controls the tray for disc change during mirror time adjustment.
[0] Return to previous menu
Press 0 “R” button to return to previous menu.

4-4-1. EXECUTING MIRROR TIME ADJUSTMENT

In order to execute mirror time adjustment, the following standard procedures must be followed.

(1) In standby mode, press three buttons ■ , ⏏ and VOLUME + simultaneously.
(2) Select “2. Drive Manual Operation”.

```
Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History Check
4. Version information
5. Video Level Adjustment

Model      : GC7H_xx
IF-con     : Ver. xx.xx (xxxx)
Syscon     : Ver. x.xxx
```

(3) Select “5. MIRR time Adjust”.

```
Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Mecha test mode
5. MIRR time Adjust
0. Return to Top Menu
```

(4) Select “5. Default set MIRR time”.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [Close] Tray close
[0] Return to previous menu
```

(5) Select “3. Threshold”.

(6) Confirm the number. If it is 75, go to next step. If it is any other value, return to step 4.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:
3. Threshold:(75) ←
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [Close] Tray close
[0] Return to previous menu
```

(7) Push ⏏ button to eject tray.

(8) Insert Test Disc HLX-504 into tray.

(9) Push ⏏ button to close tray.

(10) Push “2. DVD MIRR time Check”.

(11) Wait for HEX number to display.

(12) Confirm the number, if XX is 28 ~ 70, proceed with next step. If no, return to 8.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:  xx (XX)
3. Thereshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] tray open [close] Tray close
[0] Return to previous menu
```

(13) Push “4. Save to EEPROM”.

(14) Confirm the same values are displayed. If it is not same, return to step 7.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check: (XX XX)
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [close] Tray close
[0] Return to previous menu
```

(15) Push ⏏ button to eject tray.

(16) Take out HLX-504 and insert Test Disc YEDS-18 into tray.

(17) Push ⏏ button to close tray.

(18) Push “1. CD MIRR time check”.

(19) Wait for HEX number to display.

(20) Confirm the number, if YY is 5A ~ E8, proceed with next step. If no, return to 15.

```
MIRR time Adjust Menu

1. CD MIRR time Check:  yy (YY)
2. DVD MIRR time Check:  XX  XX
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [close] Tray close
[0] Return to previous menu
```

(21) Push “4. Save to EEPROM”.

(22) Confirm the same values are displayed. If it is not the same, return to step 15.

```
MIRR time Adjust Menu

1. CD MIRR time check: (YY YY)
2. DVD MIRR time check:  XX  XX
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [close] Tray close
[0] Return to previous menu
```

(23) Push ⏏ button to eject tray.

(24) Remove Test Disc YEDS-18 from tray.

(25) Push ⏏ button to close tray.

(26) Press [0 “R”] button to the Drive Manual Operation menu.

(27) Press [0 “R”] button to return to the Remocon Diagnosis Menu.

(28) Press the [I/⏻] button to switch OFF set.

4-5. EXECUTING IOP MEASUREMENT

In order to execute mirror time adjustment, the following standard procedures must be followed.

(1) In standby mode, press three buttons [■] , [⏏] and [VOLUME +] simultaneously.

```
        Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History Check
4. Version information
5. Video Level Adjustment

Model         : GC7H XX
IF-con  Ver   : XX.XX (XXXX)
Syscon  Ver   : X.XX
```

(2) Select "2. Drive Manual Operation" by pressing the [2 "R"] button on the remote commander. The screen will appear as below.

```
        Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Tray Aging Mode
5. MIRR time adjust
0. Return to top Menu
```

(3) Select "3. Manual Adjustment" by pressing the [3 "R"] button on the remote commander. The screen will appear as below.

```
        Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eg boost Adjust:
6. Iop:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

↓ ↑  Change Value
[RETURN] Return to previous menu
```

(4) Select Iop by pressing [6 "R"] button on the remote commander.

(5) Wait until a hexadecimal number appear.

```
        Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq Boost Adjust:
6. Iop:(ED 9E:)
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

Change Value
[0] Return to previous menu
```

(6) Convert each data from hexadecimal to decimal using conversion table.

(7) Substract between these two values.

(8) If the remainder is smaller than 93 (decimal), then it is OK. However if the value is higher than 93, then the BU is defective and need to be change.

(9) Press [RETURN "R"] button to return back to previous menu.

(10) Press [0 "R"] button to return to Top Menu and power OFF the DVD Player.

SECTION 6
ELECTRICAL ADJUSTMENT

HDMI SECTION

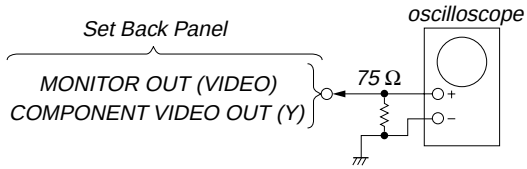
ADJUSTMENT OF VIDEO SYSTEM

[TEST DISC LIST]

Use the following test disc on this mode.

• HLX-504 (NTSC Test Disc 504): J-6090-088-A

Connection:



1. Composite Level Adjustment (MIB01 Board)

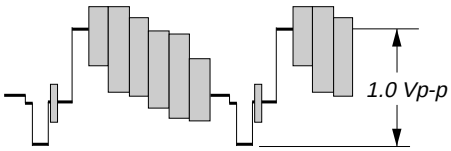
<Purpose>

This adjustment is made to satisfy the standard, and if not adjusted correctly, the brightness will be too large or small.

Mode	Video level adjustment in test mode
Signal	Color bar 100% (HLX-504 Track1)
Test point	MONITOR OUT (VIDEO) connector (75 Ω terminated)
Instrument	Oscilloscope
Adjusting element	RV501
Specification	1.0 Vp-p

Procedure:

1. Terminate the MONITOR OUT (VIDEO) connector in 75 Ω.
2. Connect an oscilloscope across 75 Ω terminator.
3. Turn the power on.
4. Set the test disc (HLX-504) on the tray and press ▷ button to playback.
5. Confirm that oscilloscope waveform is clear and check composite output level is correct or not.
6. If it is not correct, adjust the RV501 to attain 1.0 Vp-p.



2. Component Output Level Adjustment (MIB01 Board)

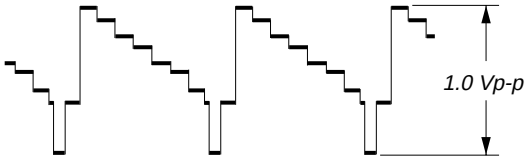
<Purpose>

This adjusts component output level. If it is incorrect, correct brightness will not be attained when connected to, for instance, projector.

Mode	Video level adjustment in test mode
Signal	Color bar 100% (HLX-504 Track1)
Test point	COMPONENT VIDEO OUT (Y) connector (75 Ω terminated)
Instrument	Oscilloscope
Adjusting element	RV502
Specification	1.0 Vp-p

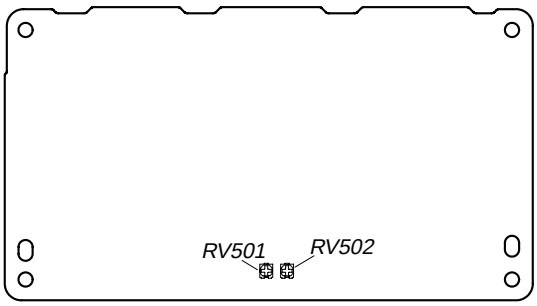
Procedure:

1. Terminate the COMPONENT VIDEO OUT (Y) connector in 75 Ω.
2. Connect an oscilloscope across 75 Ω terminator.
3. Turn the power on.
4. Set the test disc (HLX-504) on the tray and press ▷ button to playback.
5. Confirm that oscilloscope waveform is clear and check component output level is correct or not.
6. If it is not correct, adjust the RV502 to attain 1.0 Vp-p.



Adjustment Location:

– MIB01 Board (SIDE A) –



SECTION 7
DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Schematic Diagrams.
Note:
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

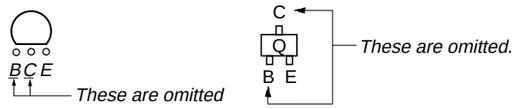
- ▭ : adjustment for repair.
- ▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages and waveforms are dc with respect to ground in service mode.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
  no mark : DVD STOP
- Voltages are taken with VOM (Input impedance 10 MΩ).
- Circled numbers refer to waveforms.
- Signal path.
  - : AUDIO
  - : CD PLAY
  - : DVD PLAY
  - : SACD PLAY
  - : TUNER
  - : VIDEO
  - : Y
  - : CHROMA
  - : COMPONENT VIDEO
  - : AUDIO IN
  - : DIGITAL IN (OPTICAL)
  - : DIGITAL IN (COAXIAL)
  - : DIGITAL
  - : DIGITAL OUT
- Abbreviation
  CND : Canadian model.

For Printed Wiring Boards.
Note:
- ○——— : parts extracted from the component side.
- ○ : Through hole.
- ▭ : Pattern from the side which enables seeing.

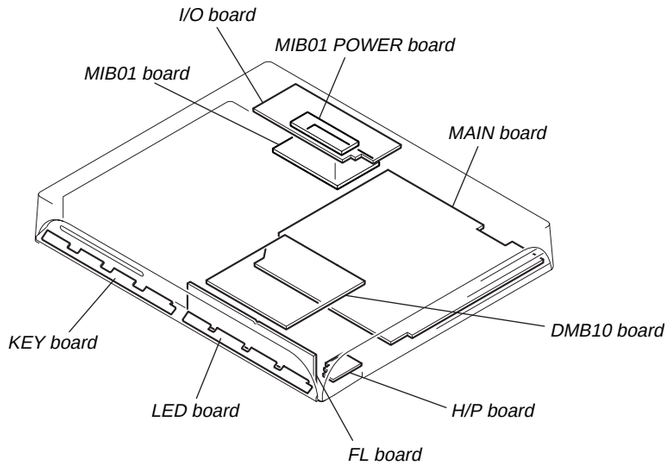
(The other layers' patterns are not indicated.)

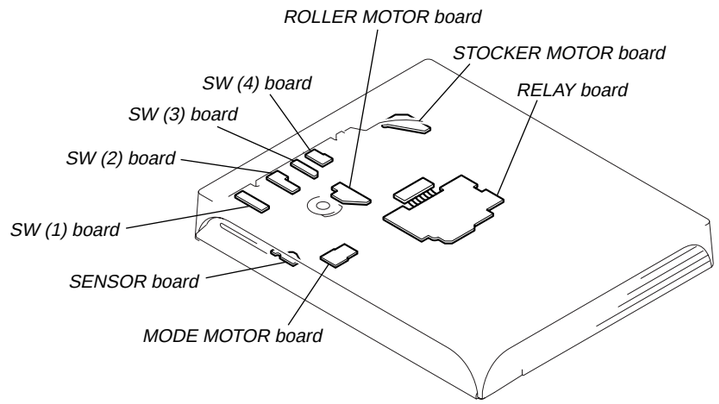
Caution:	
Pattern face side: (SIDE A)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (SIDE B)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.

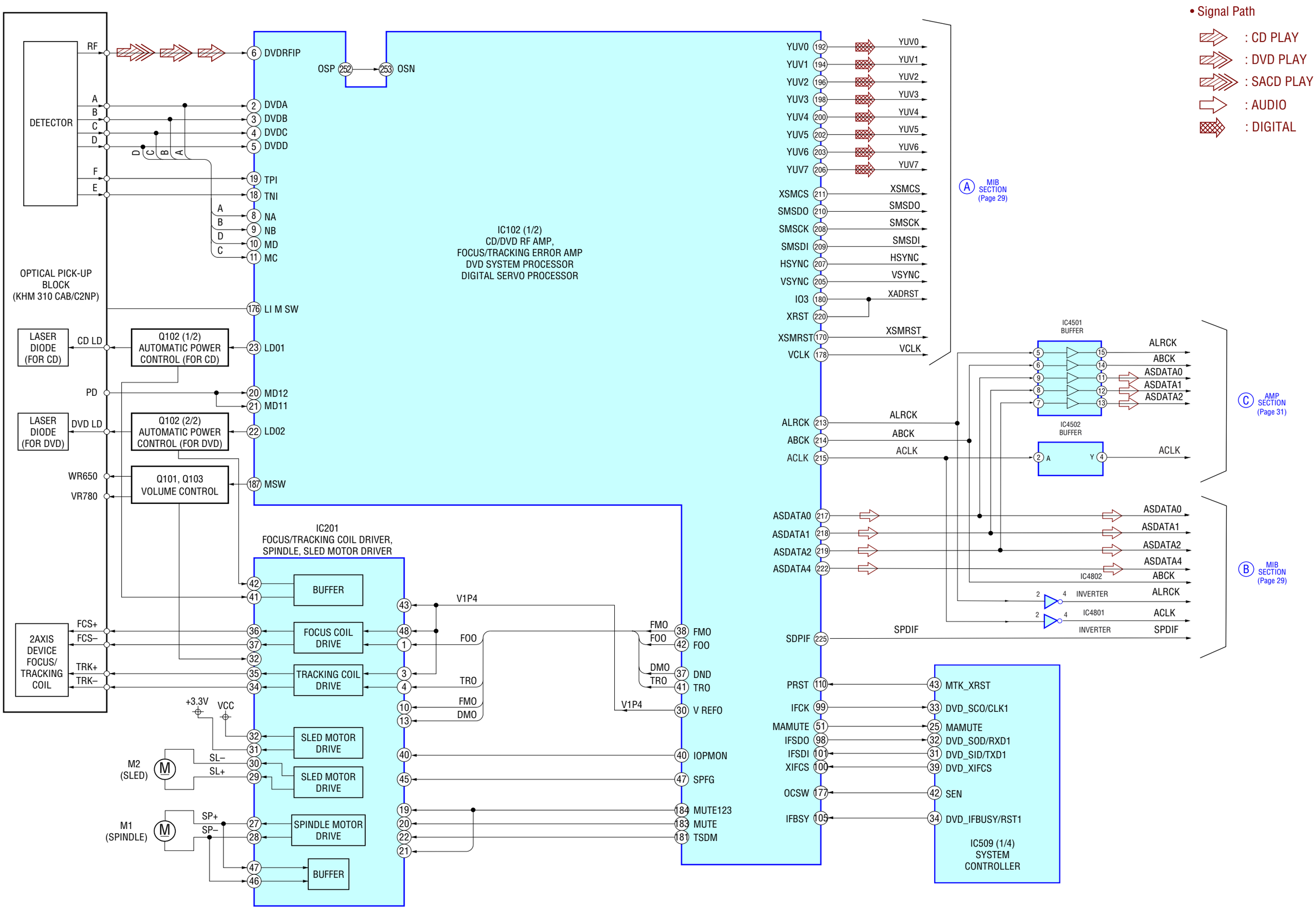


• Circuit Boards Location

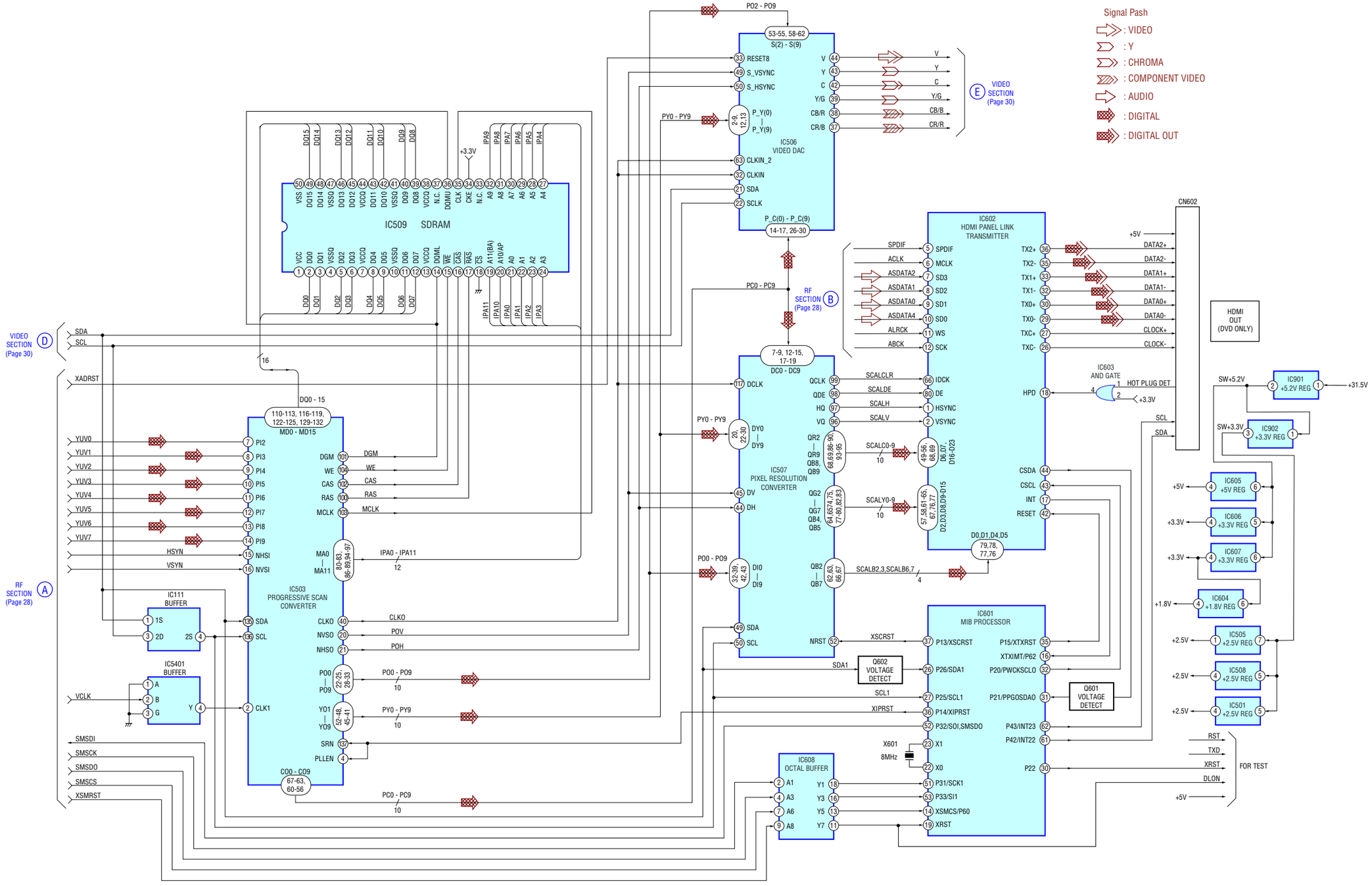




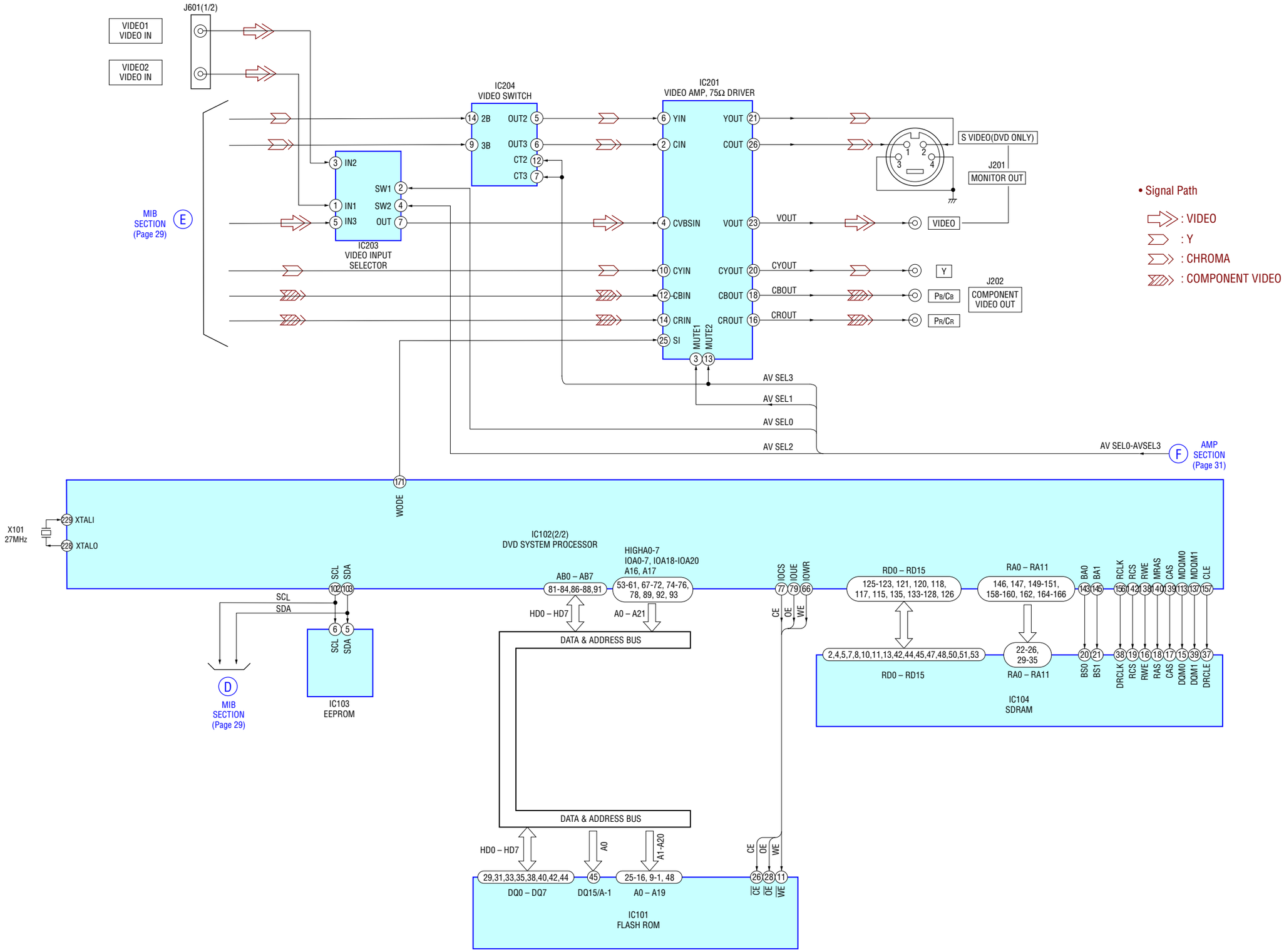
7-1. BLOCK DIAGRAM – RF SECTION –



– MIB SECTION –


Signal Pash
: VIDEO
: Y
: CHROMA
: COMPONENT VIDEO
: AUDIO
: DIGITAL
: DIGITAL OUT
IC509 SDRAM
IC506 VIDEO DAC
IC507 PIXEL RESOLUTION CONVERTER
IC503 PROGRESSIVE SCAN CONVERTER
IC602 HDMI PANEL LINK TRANSMITTER
IC601 MIB PROCESSOR
IC608 OCTAL BUFFER
IC111 BUFFER
IC5401 BUFFER
Q602 VOLTAGE DETECT
Q601 VOLTAGE DETECT
IC603 AND GATE
CN602
HDMI OUT (DVD ONLY)
IC901 +5.2V REG
IC902 +3.3V REG
IC605 +5V REG
IC606 +3.3V REG
IC607 +3.3V REG
IC604 +1.8V REG
IC505 +2.5V REG
IC508 +2.5V REG
IC501 +2.5V REG
X601 8MHz
FOR TEST
VIDEO SECTION (Page 30)
RF SECTION (Page 28)
HOT PLUG DET
SCL
SDA
RST
TXD
XRST
DLON

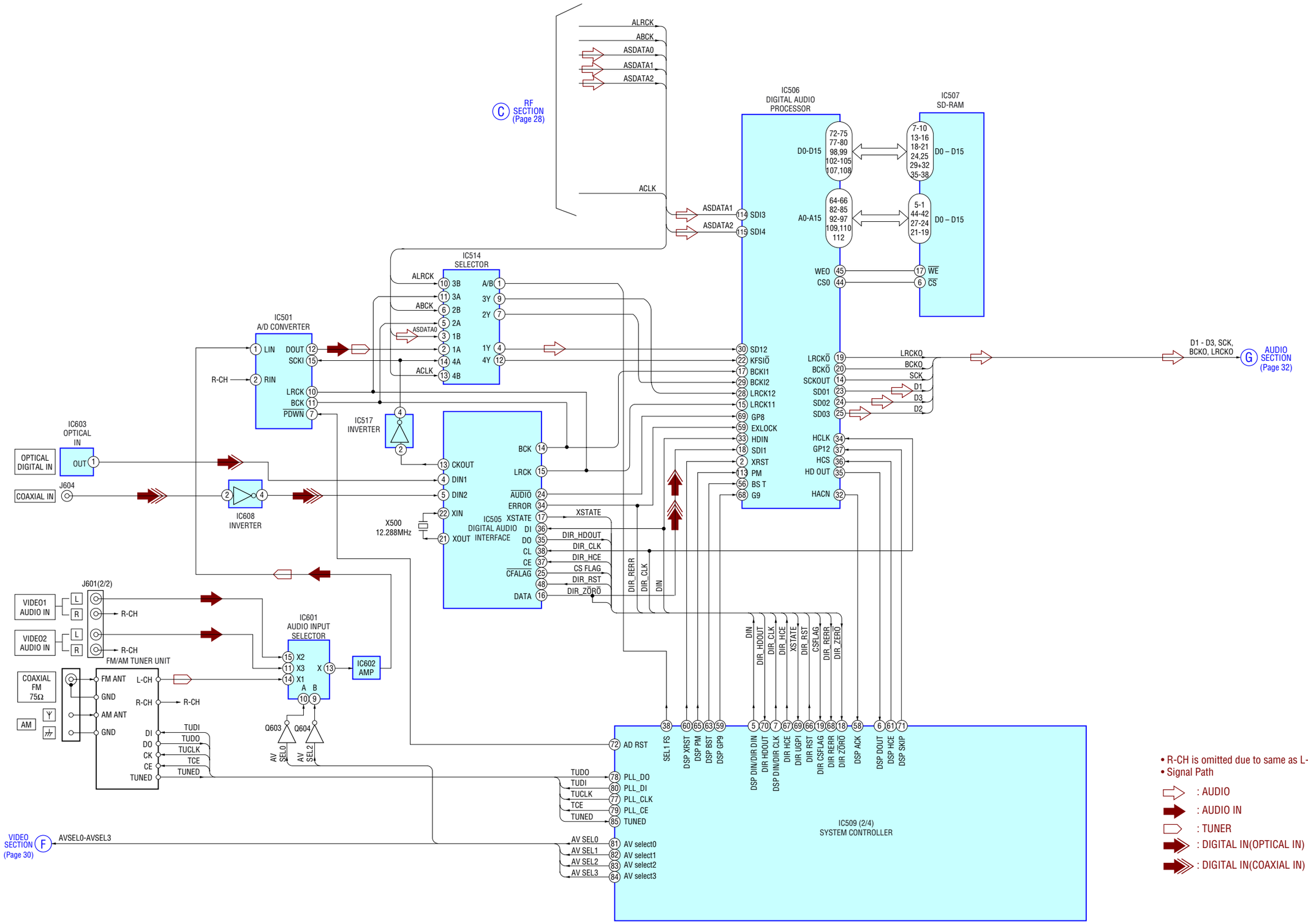
– VIDEO SECTION –



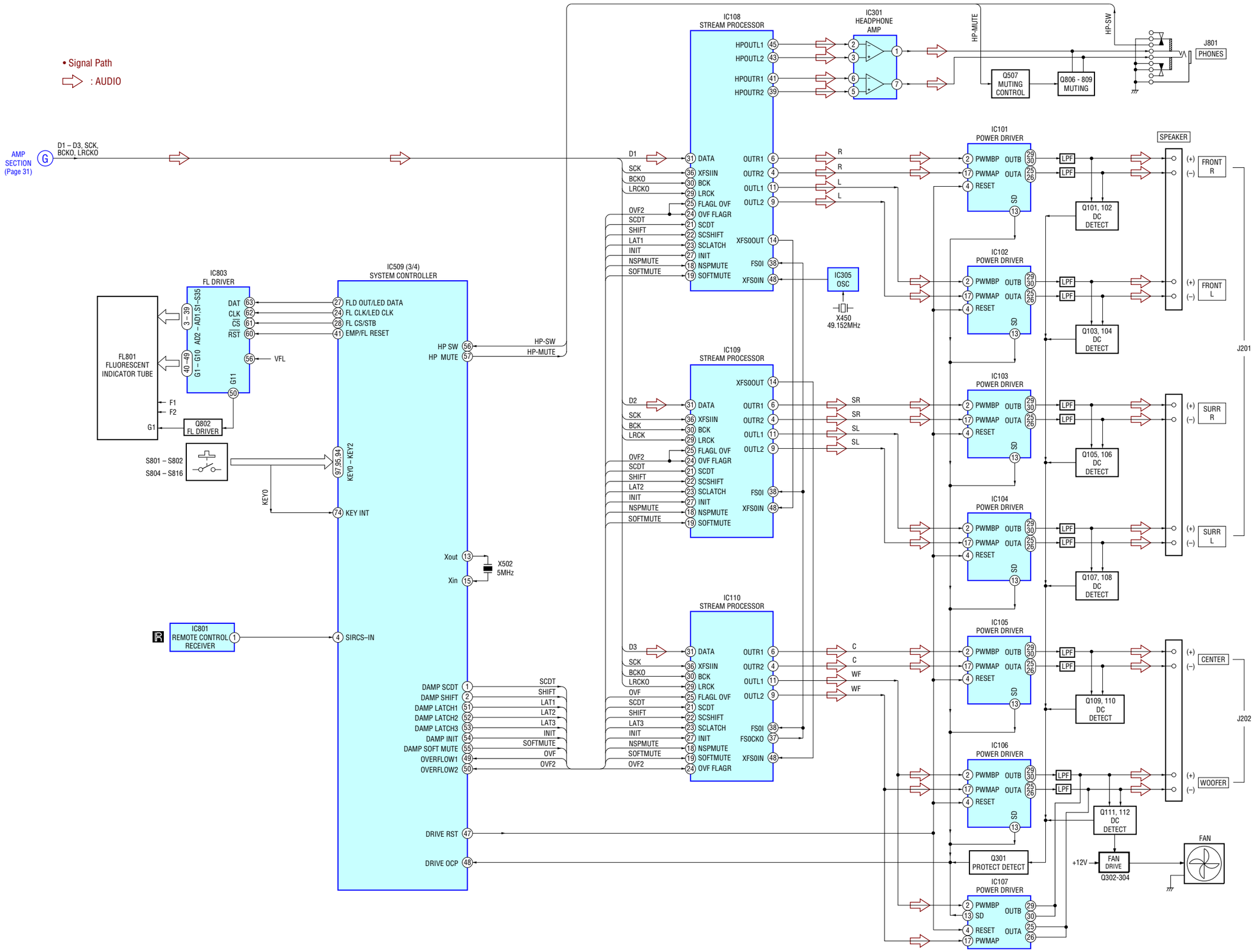
• Signal Path

: VIDEO
: Y
: CHROMA
: COMPONENT VIDEO

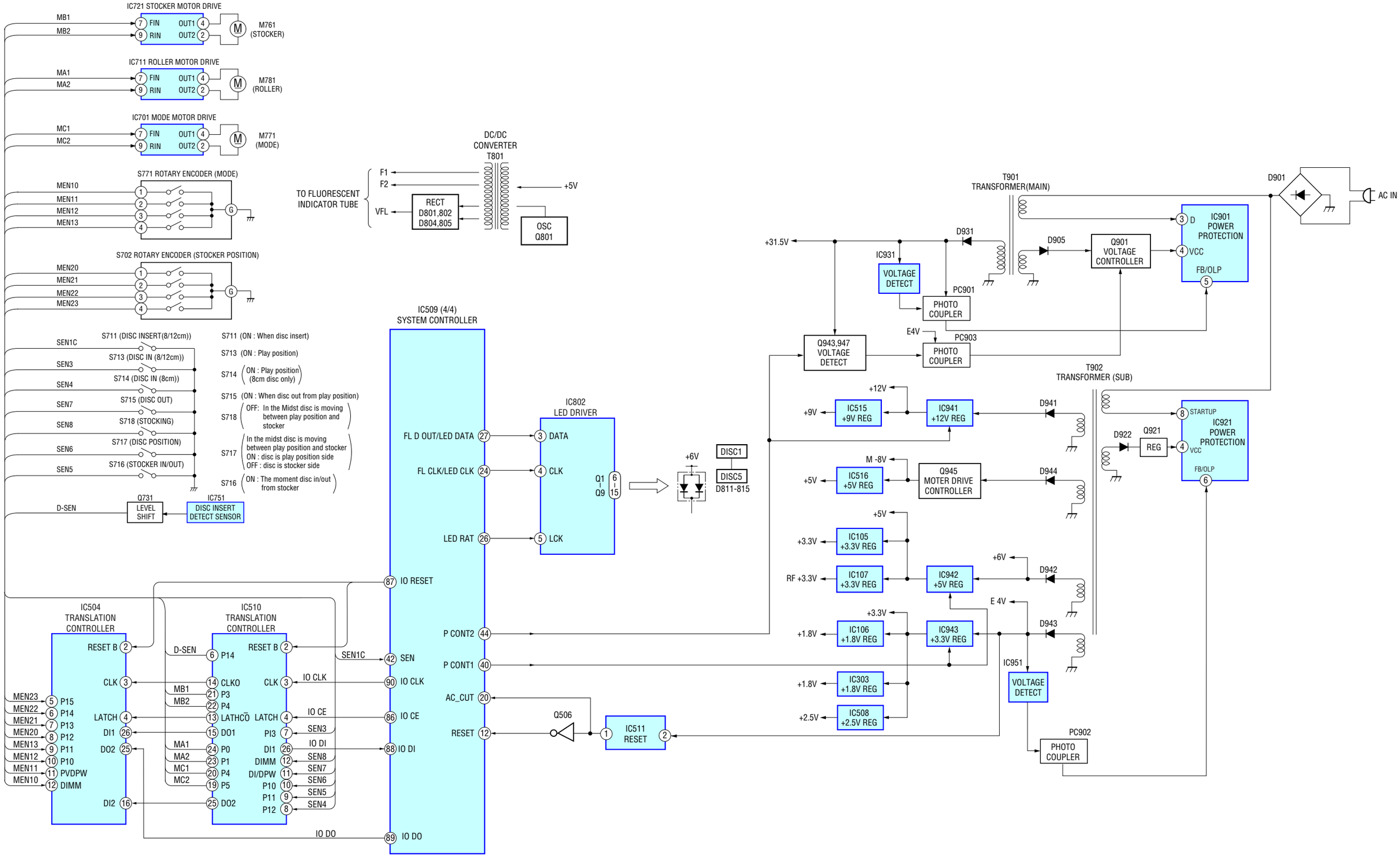
– AMP SECTION –


ALRCK
ABCK
ASDATA0
ASDATA1
ASDATA2
ACLK
C RF SECTION (Page 28)
IC506 DIGITAL AUDIO PROCESSOR
IC507 SD-RAM
D0-D15
D0 – D15
A0-A15
WEO
CS0
WE
CS
IC514 SELECTOR
IC501 A/D CONVERTER
LIN
RIN
R-CH
DOUT
SCKI
LRCK
BCK
PDWN
IC517 INVERTER
IC603 OPTICAL IN
OPTICAL DIGITAL IN
COAXIAL IN
J604
IC608 INVERTER
X500 12.288MHz
IC505 DIGITAL AUDIO INTERFACE
CKOUT
DIN1
DIN2
XIN
XOUT
XSTATE
DIR_HDOUT
DIR_CLK
DIR_HCE
CS FLAG
DIR_RST
DIR_ZERO
DIR_RERR
DIN
SD12
KFSIO
BCKI1
BCKI2
LRCK12
LRCK11
GP8
EXLOCK
HDIN
SDI1
XRST
PM
BS T
G9
HCLK
GP12
HCS
HD OUT
HACN
LRCKO
BCKO
SCK
D1
D3
D2
D1 - D3, SCK, BCKO, LRCKO
G AUDIO SECTION (Page 32)
J601(2/2)
VIDEO1 AUDIO IN
VIDEO2 AUDIO IN
IC601 AUDIO INPUT SELECTOR
IC602 AMP
FM/AM TUNER UNIT
COAXIAL FM 75Ω
AM
FM ANT
AM ANT
GND
L-CH
TUDI
TUDO
TUCLK
TCE
TUNED
Q603
Q604
AV SEL0
AV SEL2
AD RST
SEL1 FS
DSP XRST
DSP PM
DSP BST
DSP GP9
DSP DIN/DIR DIN
DIR HDOUT
DSP DIN/DIR CLK
DIR HCE
DIR UGPI
DIR RST
DIR CSFLAG
DIR RERR
DIR ZERO
DSP ACK
DSP DOUT
DSP HCE
DSP SKIP
PLL_DO
PLL_DI
PLL_CLK
PLL_CE
AV select0
AV select1
AV select2
AV select3
IC509 (2/4) SYSTEM CONTROLLER
VIDEO SECTION (Page 30) F AVSEL0-AVSEL3
• R-CH is omitted due to same as L-CH.
• Signal Path
: AUDIO
: AUDIO IN
: TUNER
: DIGITAL IN(OPTICAL IN)
: DIGITAL IN(COAXIAL IN)

– AUDIO SECTION –



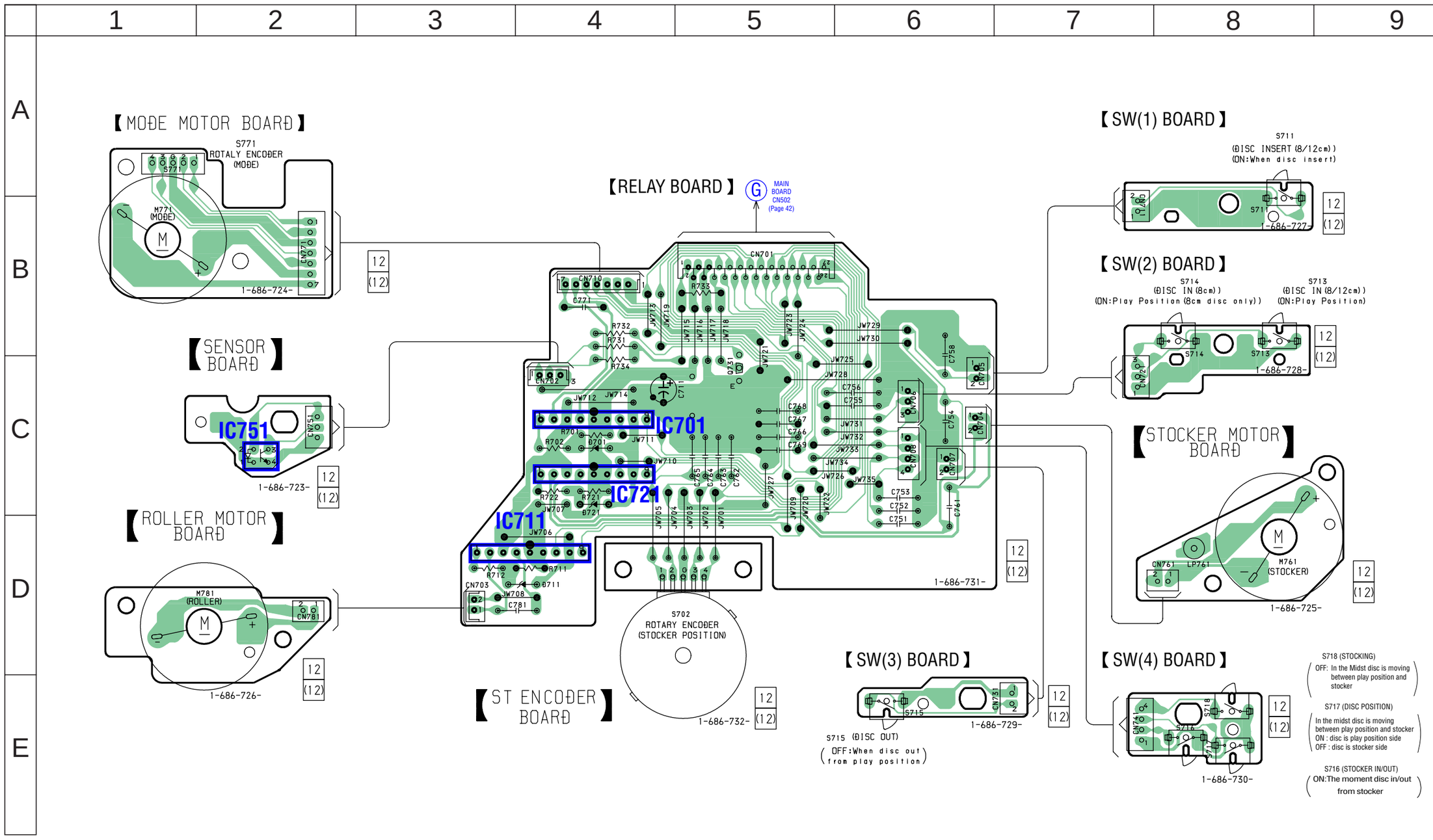
– MAIN SECTION –



7-2. PRINTED WIRING BOARD – CHANGER SECTION –

• See page 27 for Circuit Boards Location.

:Uses unleaded solder.

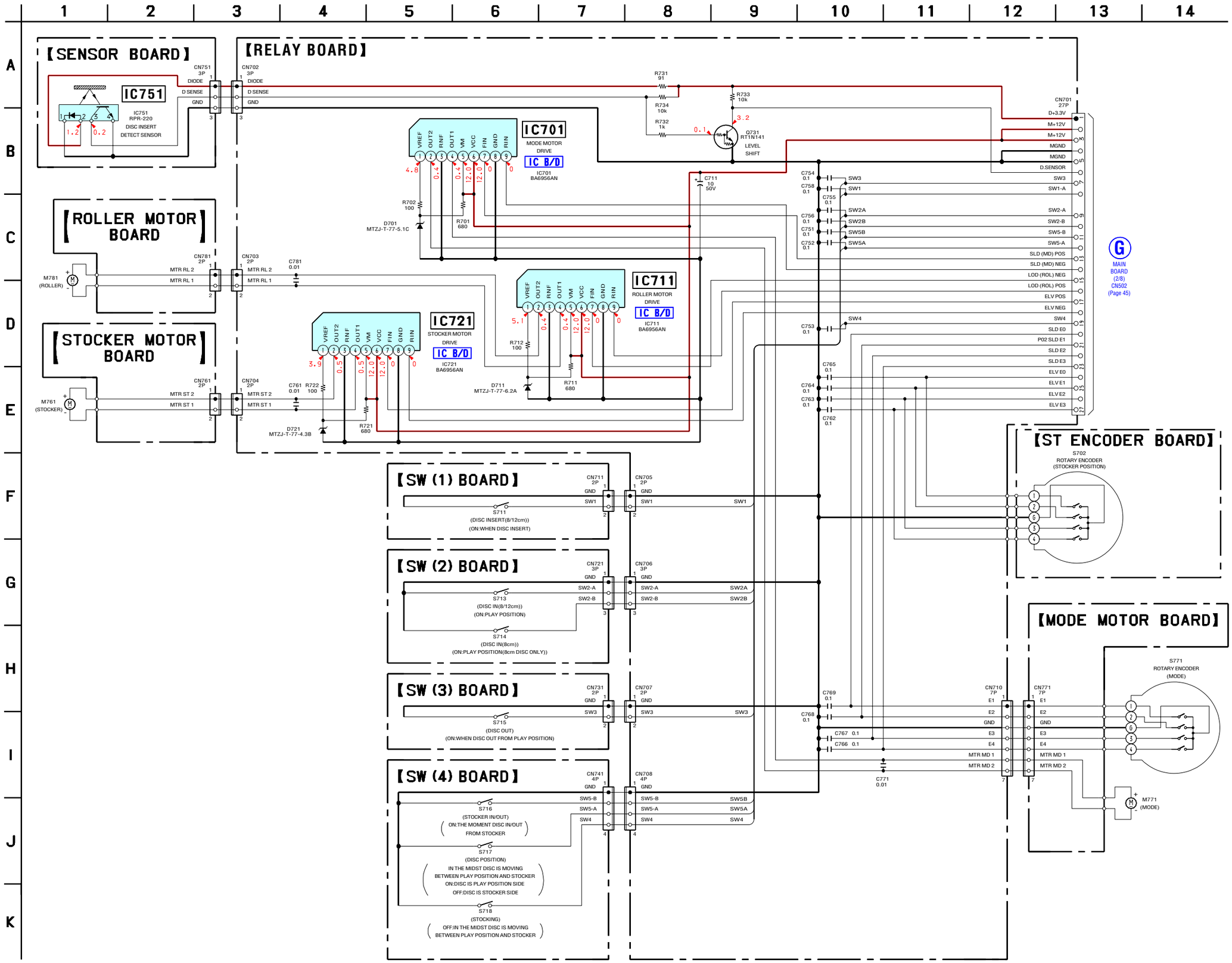


- **Semiconductor Location**

Ref. No.	Location
D701	C-4
D711	C-4
D721	C-4
IC701	C-4
IC711	D-4
IC721	C-4
IC751	C-2
Q731	B-5

7-3. SCHEMATIC DIAGRAM – CHANGER SECTION –

• See page 66 for IC Block Diagrams.



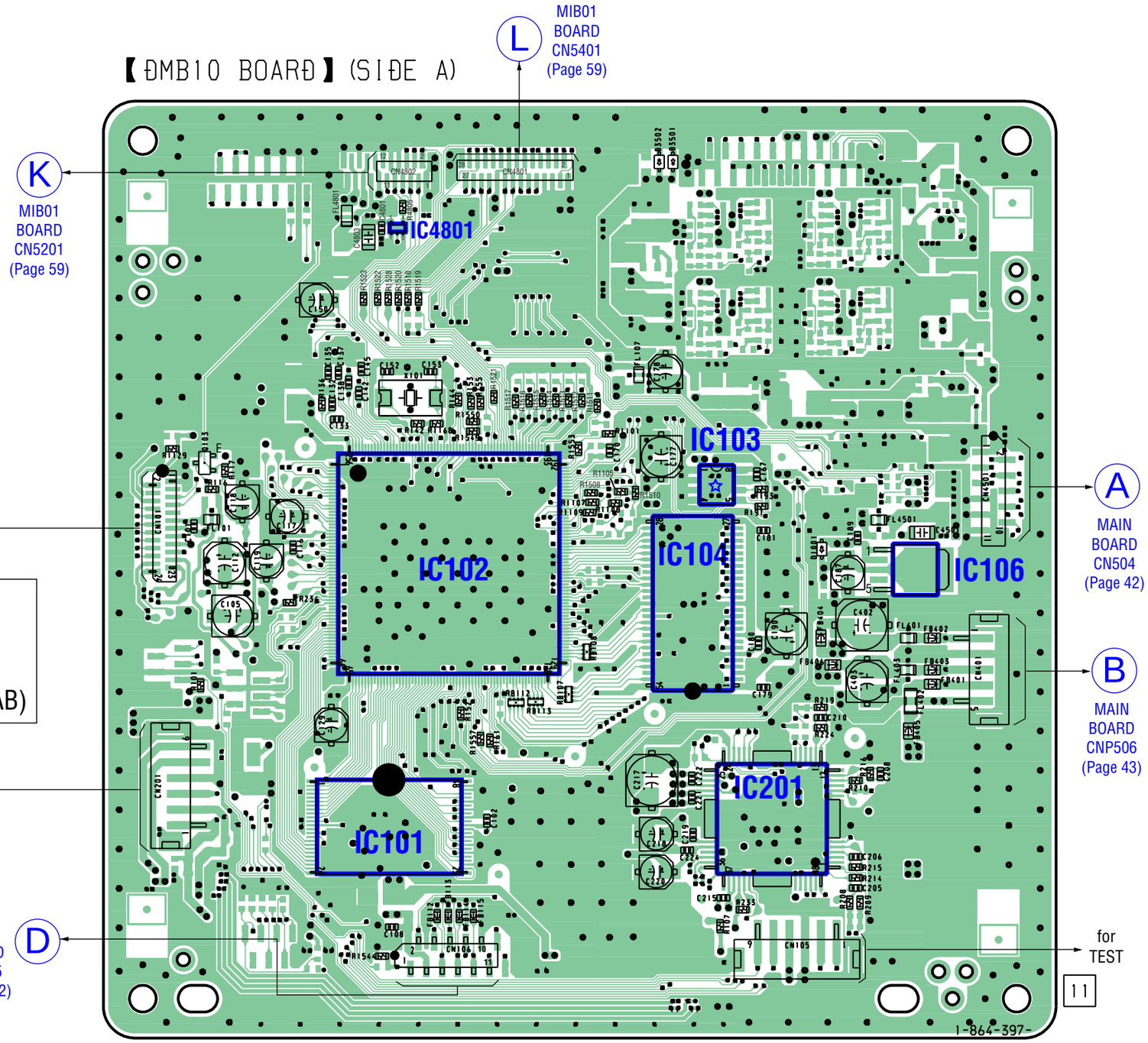
7-4. PRINTED WIRING BOARD – DMB10 SECTION (SIDE A) –

• See page 27 for Circuit Boards Location.

:Uses unleaded solder.

☆ IC103 (EEP ROM) can not be replaced individually.
Replace it with DMB10 board assembly for service.

【DMB10 BOARD】(SIDE A)



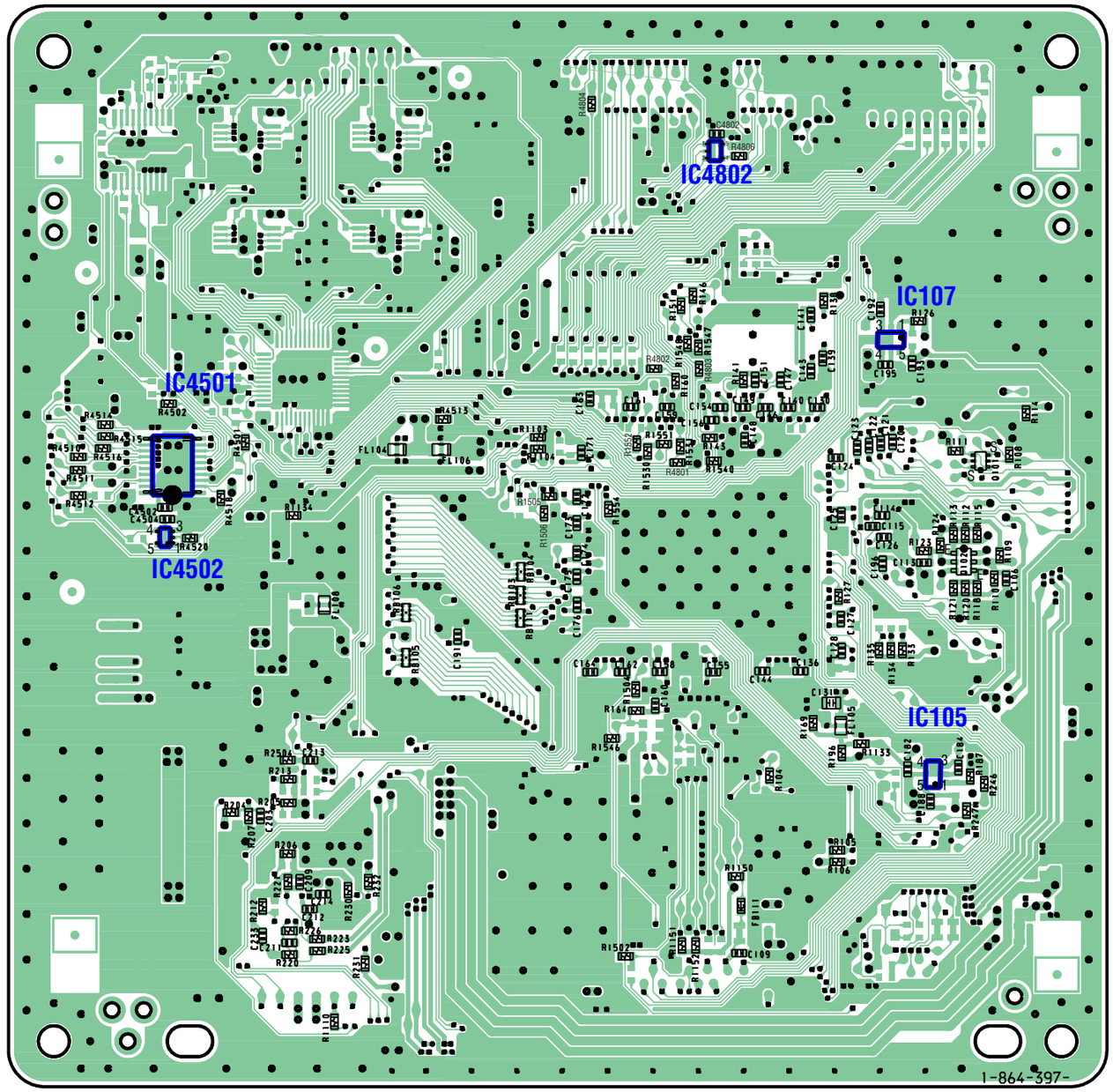
• **Semiconductor Location**

Ref. No.	Location
D1001	C-5
D3501	A-4
D3502	A-4
IC101	D-3
IC102	C-3
IC103	C-4
IC104	C-4
IC106	C-5
IC201	D-5
IC4801	B-3
Q103	C-2

7-5. PRINTED WIRING BOARD – DMB10 SECTION (SIDE B) –

• See page 27 for Circuit Boards Location. :Uses unleaded solder.

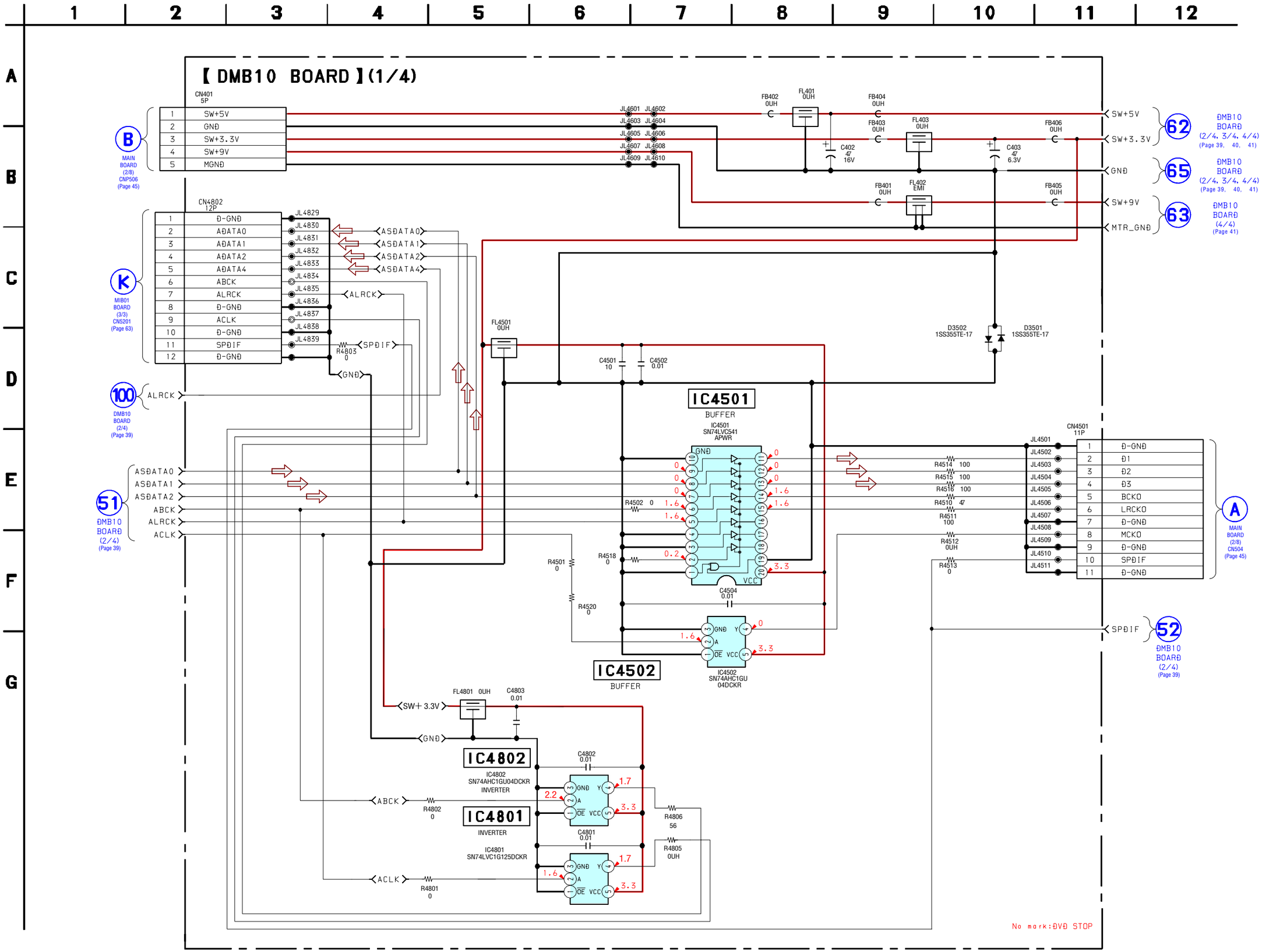
【DMB10 BOARD】(SIDE B)



• **Semiconductor Location**

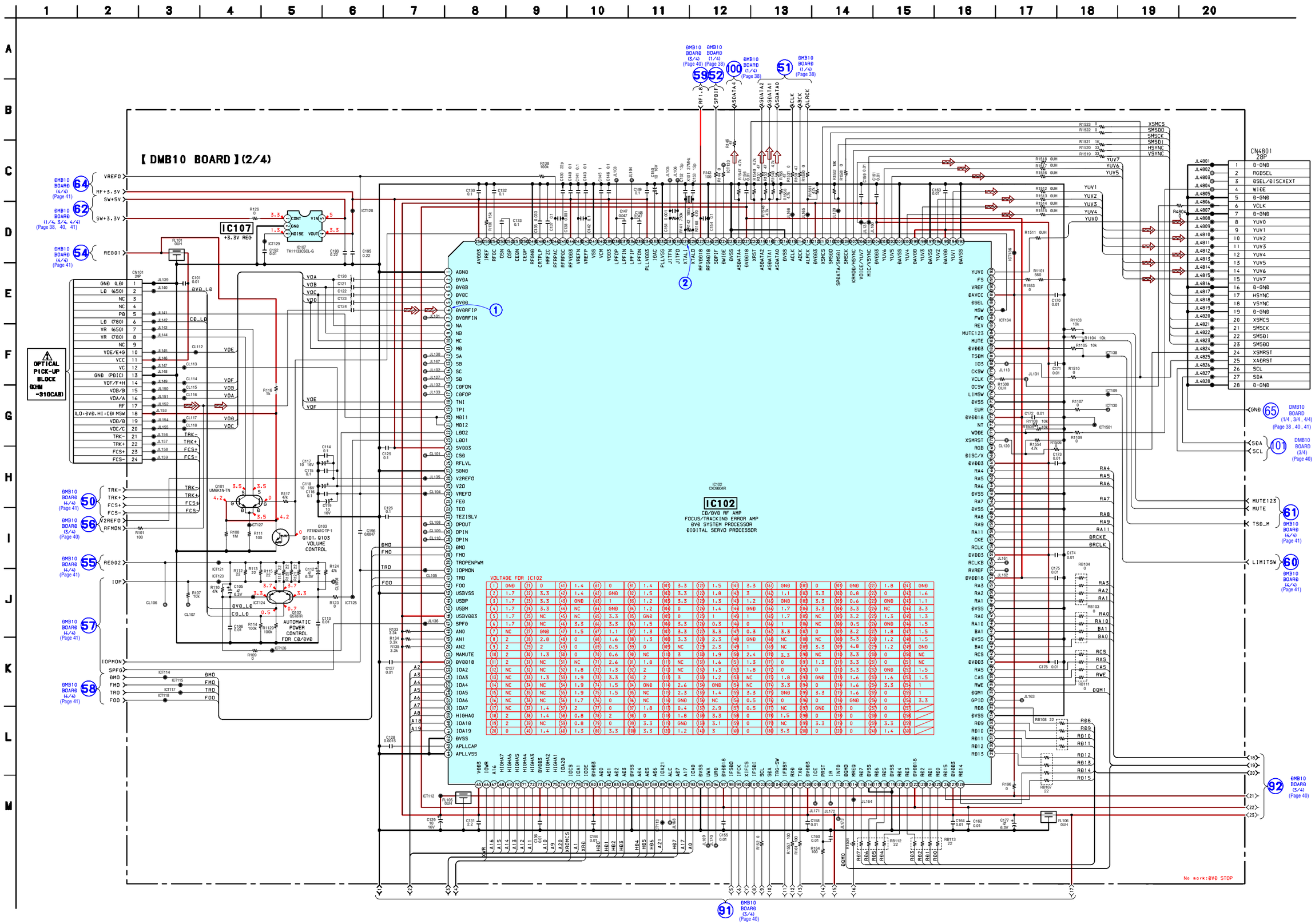
Ref. No.	Location
IC105	D-5
IC107	B-5
IC4501	C-2
IC4502	C-2
IC4802	B-4
Q101	C-5
Q102	C-5

7-6. SCHEMATIC DIAGRAM – DMB10 SECTION (1/4) –



7-7. SCHEMATIC DIAGRAM – DMB10 SECTION (2/4) –

• See page 75 for IC Pin Function Description. • See page 65 for Waveforms.

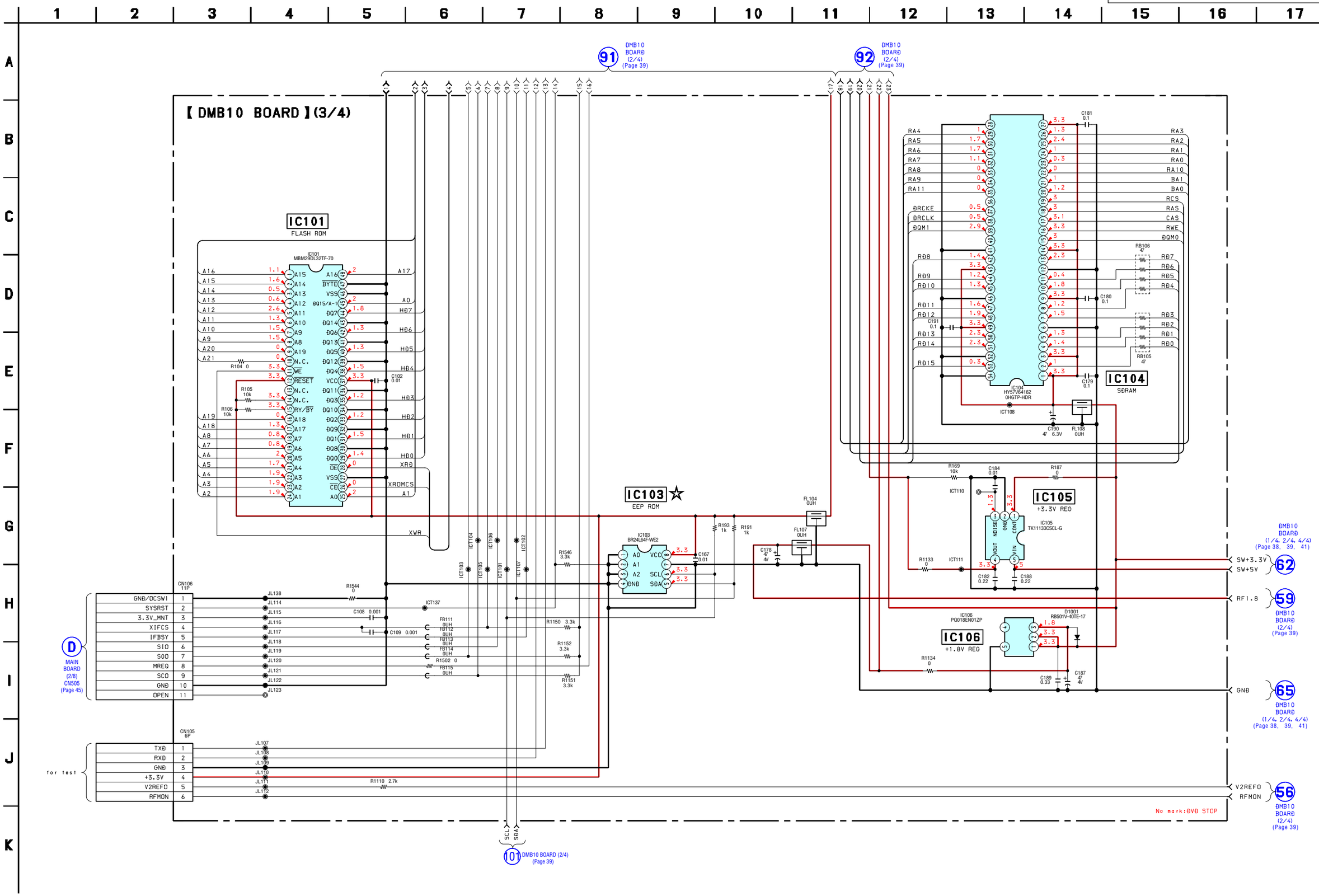


VOLTAGE FOR IC102

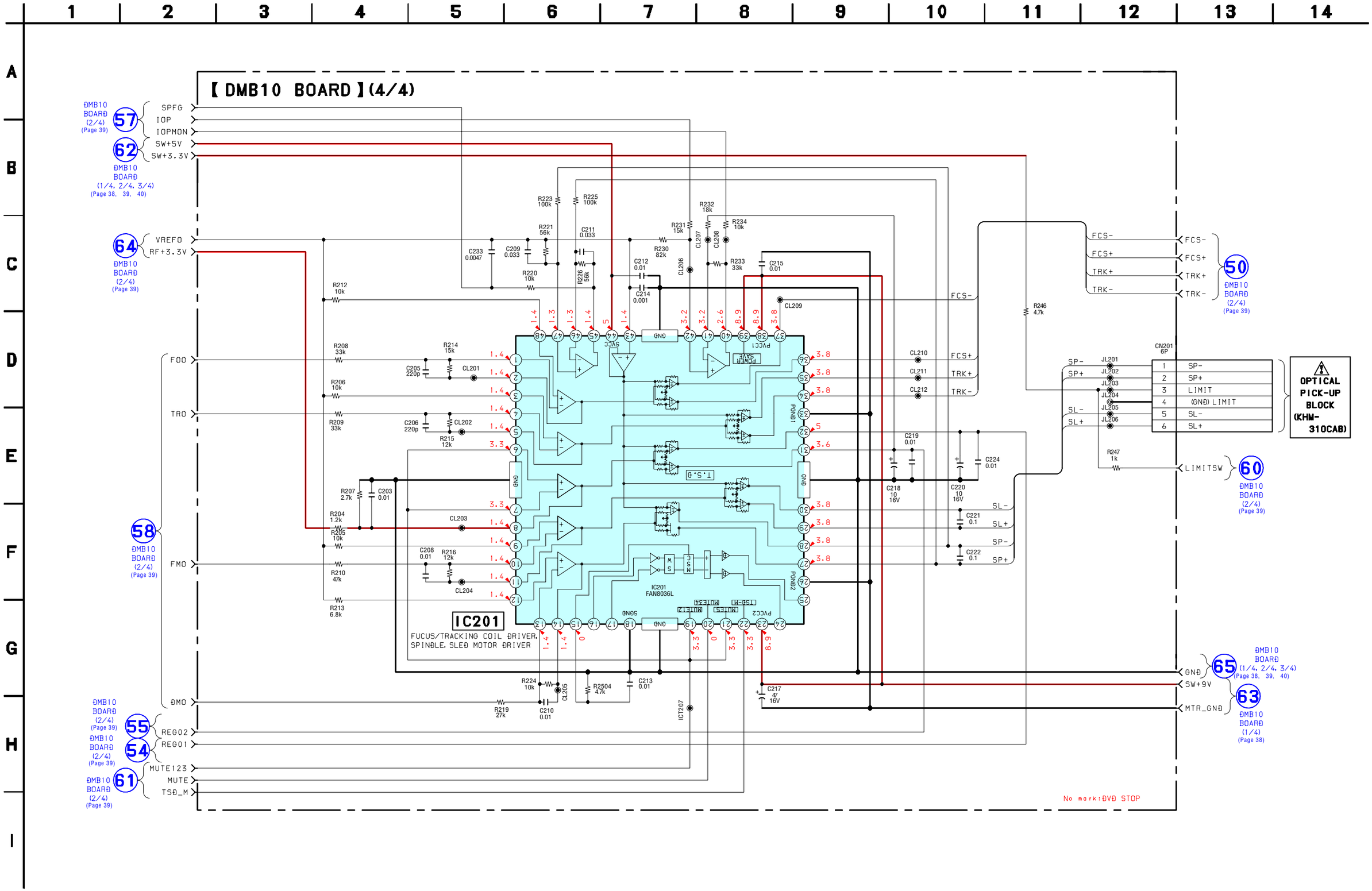
(1)	GND	(21)	0	(41)	1.4	(61)	0	(81)	1.4	(101)	3.3	(121)	1.5	(141)	3.3	(161)	GND	(181)	0	(201)	GND	(221)	1.8	(241)	GND
(2)	1.7	(22)	3.3	(42)	1.4	(62)	GND	(82)	1.5	(102)	3.3	(122)	1.8	(142)	3	(162)	1.1	(182)	3.3	(202)	0.8	(222)	0	(242)	1.6
(3)	1.7	(23)	3.3	(43)	GND	(63)	1	(83)	1.2	(103)	3.3	(123)	1.5	(143)	1.2	(163)	GND	(183)	3.3	(203)	0.6	(223)	GND	(243)	1.1
(4)	1.7	(24)	3.3	(44)	NC	(64)	GND	(84)	1.2	(104)	0	(124)	1.4	(144)	GND	(164)	1.7	(184)	3.3	(204)	3.3	(224)	NC	(244)	3.3
(5)	1.7	(25)	NC	(45)	NC	(65)	3.3	(85)	GND	(105)	0	(125)	1	(145)	1	(165)	1.7	(185)	NC	(205)	3.2	(225)	1.3	(245)	1.3
(6)	1.7	(26)	NC	(46)	3.3	(66)	3.3	(86)	1.5	(106)	3.3	(126)	0.3	(146)	0	(166)	1	(186)	NC	(206)	0.5	(226)	GND	(246)	1.5
(7)	NC	(27)	GND	(47)	1.5	(67)	1.1	(87)	1.3	(107)	3.3	(127)	3.3	(147)	0.5	(167)	3.3	(187)	0	(207)	3.2	(227)	1.8	(247)	1.5
(8)	2	(28)	2.8	(48)	0	(68)	1.6	(88)	1.3	(108)	3.3	(128)	2.3	(148)	GND	(168)	NC	(188)	NC	(208)	3.3	(228)	1.2	(248)	1.5
(9)	2	(29)	2	(49)	0	(69)	0.5	(89)	0	(109)	NC	(129)	2.3	(149)	1	(169)	NC	(189)	3.3	(209)	4.8	(229)	1.2	(249)	GND
(10)	2	(30)	1.3	(50)	0	(70)	0.6	(90)	NC	(110)	3	(130)	1.9	(150)	2.4	(170)	3.3	(190)	NC	(210)	3.3	(230)	0	(250)	NC
(11)	2	(31)	NC	(51)	NC	(71)	2.6	(91)	1.8	(111)	NC	(131)	1.6	(151)	1.3	(171)	0	(191)	1.3	(211)	3.3	(231)	0	(251)	NC
(12)	NC	(32)	NC	(52)	1.8	(72)	1.3	(92)	2	(112)	NC	(132)	1.3	(152)	1.8	(172)	0	(192)	0	(212)	3.3	(232)	GND	(252)	1.5
(13)	NC	(33)	1.3	(53)	1.9	(73)	3.3	(93)	2	(113)	3	(133)	1.2	(153)	NC	(173)	1.8	(193)	GND	(213)	1.6	(233)	1.6	(253)	1.5
(14)	NC	(34)	NC	(54)	1.9	(74)	1.5	(94)	GND	(114)	2.6	(134)	GND	(154)	NC	(174)	3.3	(194)	0	(214)	1.6	(234)	3.3	(254)	1
(15)	NC	(35)	NC	(55)	1.9	(75)	1.5	(95)	NC	(115)	2.3	(135)	1.4	(155)	3.3	(175)	GND	(195)	3.3	(215)	1.6	(235)	0	(255)	1
(16)	NC	(36)	NC	(56)	1.7	(76)	0	(96)	NC	(116)	GND	(136)	NC	(156)	0.5	(176)	0	(196)	0	(216)	GND	(236)	0	(256)	3.3
(17)	NC	(37)	1.4	(57)	2	(77)	0	(97)	1.8	(117)	0.4	(137)	2.9	(157)	0.5	(177)	NC	(197)	GND	(217)	0	(237)	0	(257)	
(18)	2	(38)	1.4	(58)	0.8	(78)	2	(98)	0	(118)	1.8	(138)	3.3	(158)	0	(178)	1.5	(198)	0	(218)	0	(238)	0	(258)	
(19)	2	(39)	NC	(59)	0.8	(79)	0	(99)	3.3	(119)	GND	(139)	3.1	(159)	0	(179)	NC	(199)	3.3	(219)	0	(239)	3.3	(259)	
(20)	0	(40)	1.4	(60)	1.3	(80)	3.3	(100)	3.3	(120)	1.2	(140)	3	(160)	0	(180)	3.3	(200)	0	(220)	0	(240)	1.4	(260)	

7-8. SCHEMATIC DIAGRAM – DMB10 SECTION (3/4) –

☆ IC103 (EEP ROM) can not be replaced individually.
Replace it with DMB10 board assembly for service.



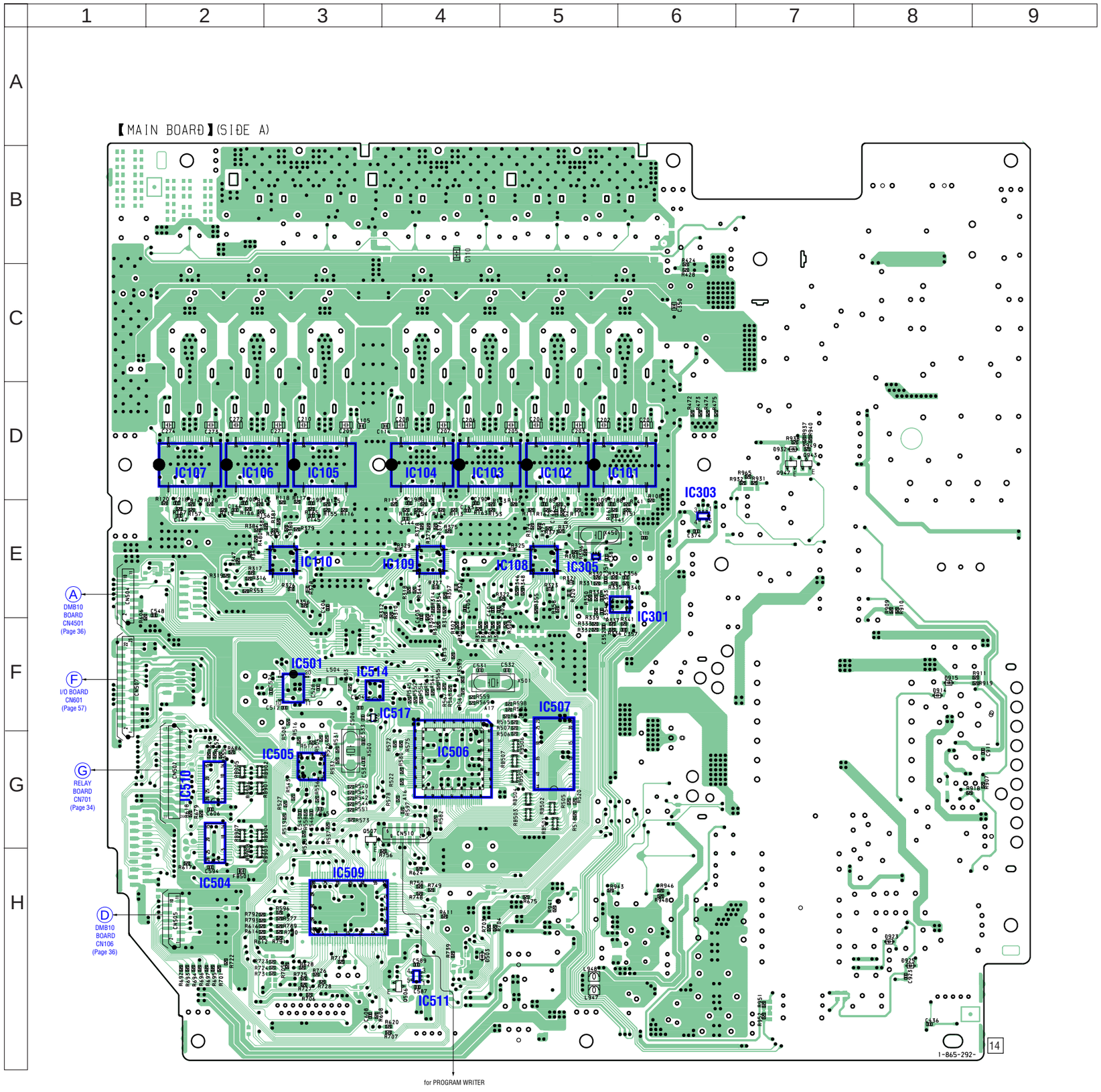
7-9. SCHEMATIC DIAGRAM – DMB10 SECTION (4/4) –



7-10. PRINTED WIRING BOARD – MAIN SECTION (SIDE A) –

• See page 27 for Circuit Boards Location.

:Uses unleaded solder.



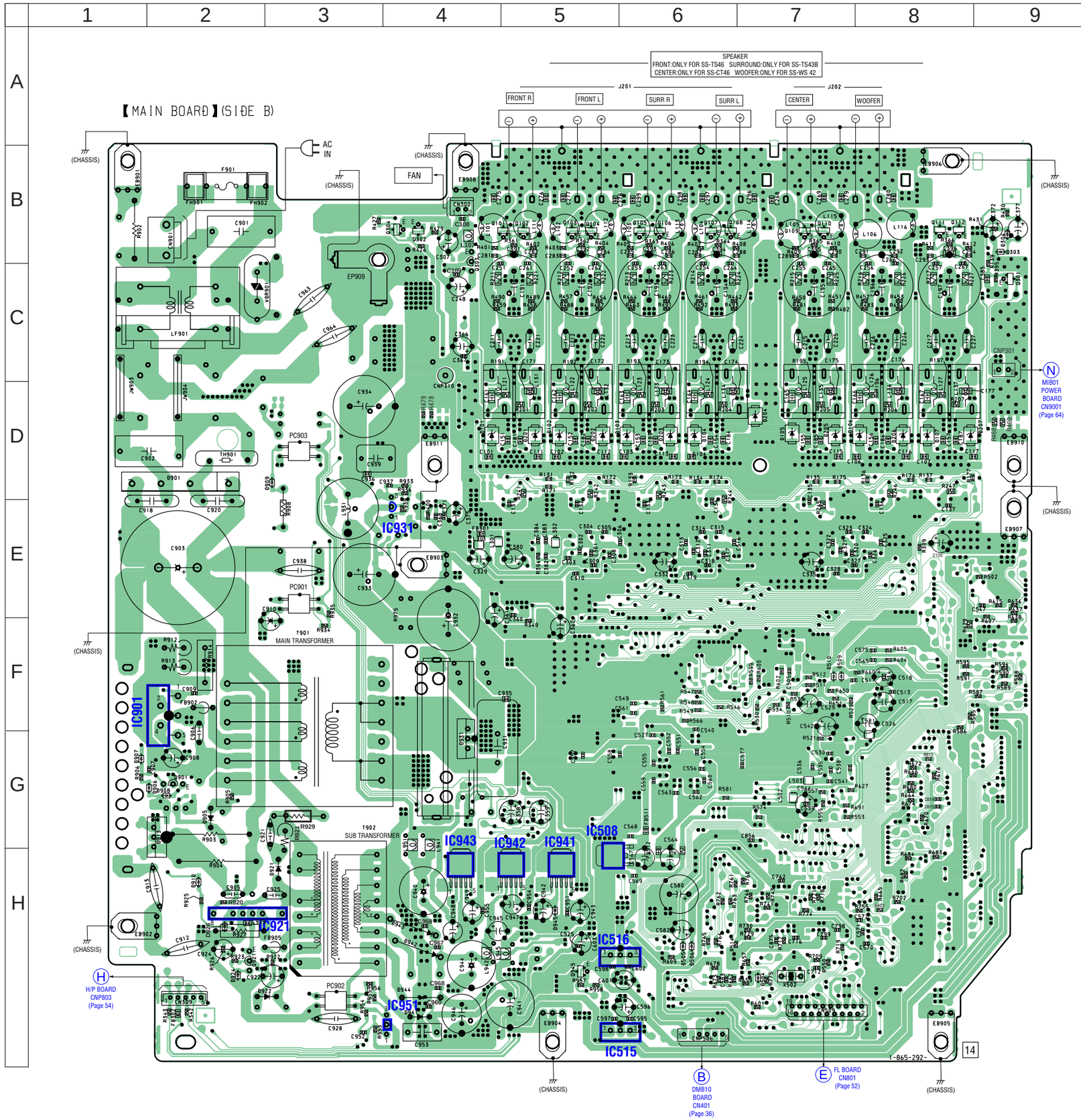
- **Semiconductor Location**

Ref. No.	Location
D503	H-4
D914	F-8
D915	F-8
D923	H-8
D925	H-8
D932	D-7
IC101	D-6
IC102	D-5
IC103	D-4
IC104	D-4
IC105	D-3
IC106	D-2
IC107	D-2
IC108	E-5
IC109	E-4
IC110	E-3
IC301	E-6
IC303	D-6
IC305	E-5
IC501	F-3
IC504	H-2
IC505	G-3
IC506	G-4
IC507	F-5
IC509	H-3
IC510	G-2
IC511	H-4
IC514	F-3
IC517	F-4
Q506	H-4
Q507	G-3
Q943	D-7
Q947	D-7

7-11. PRINTED WIRING BOARD – MAIN SECTION (SIDE B) –

• See page 27 for Circuit Boards Location.

:Uses unleaded solder.

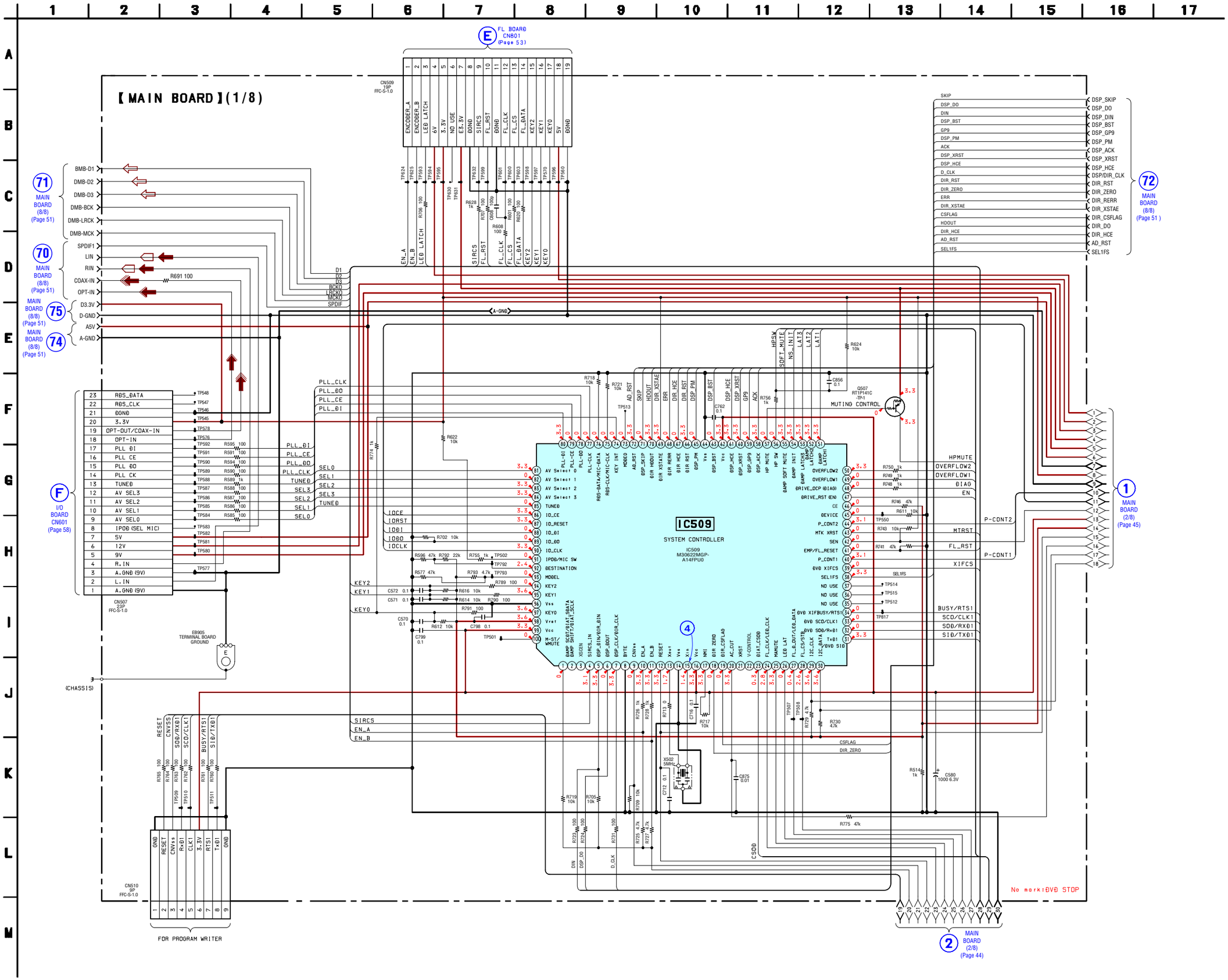


- **Semiconductor Location**

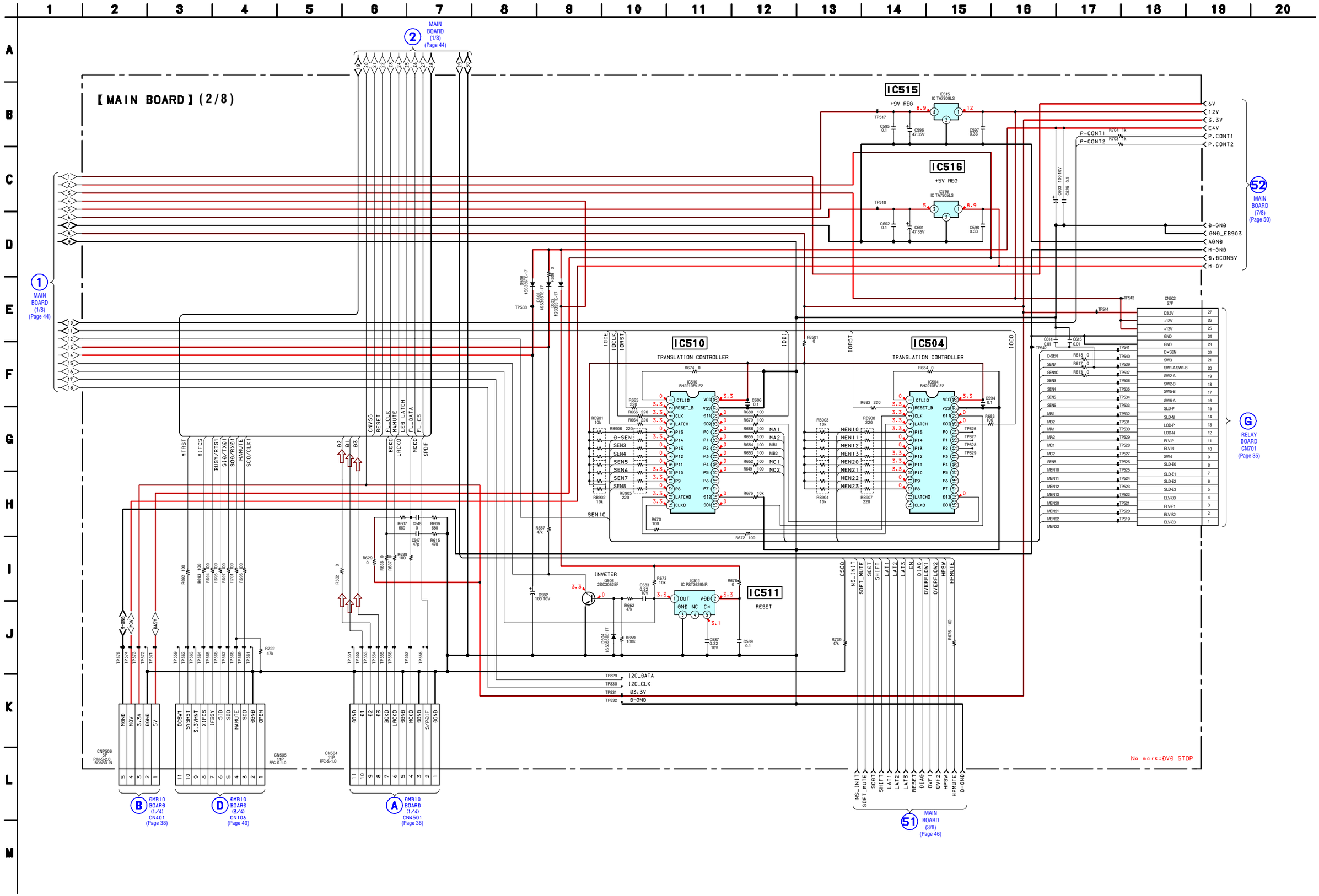
Ref. No.	Location
D101	D-4
D102	D-5
D103	D-6
D104	D-6
D105	D-7
D106	D-8
D107	D-8
D201	D-5
D202	D-5
D203	D-6
D204	D-7
D205	D-7
D206	D-8
D207	D-9
D303	B-9
D304	B-9
D504	H-7
D505	H-6
D506	H-6
D508	F-7
D509	F-7
D901	D-2
D905	G-2
D906	G-2
D907	G-1
D908	G-2
D909	D-3
D910	H-2
D913	G-2
D921	H-3
D922	H-3
D924	H-2
D931	F-4
D941	H-4
D942	H-4
D943	H-4
D944	H-4
D945	H-5
IC508	G-5
IC515	H-5
IC516	H-5
IC901	F-1
IC921	H-3
IC931	E-4
IC941	G-5
IC942	G-5
IC943	G-4
IC951	H-4
Q101	B-4
Q102	B-5
Q103	B-5
Q104	B-5
Q105	B-6
Q106	B-6
Q107	B-6
Q108	B-6
Q109	B-7
Q110	B-7
Q111	B-8
Q112	B-8
Q301	C-9
Q302	B-4
Q303	B-4
Q304	B-4
Q901	G-2
Q921	H-2
Q945	H-5

7-12. SCHEMATIC DIAGRAM – MAIN SECTION (1/8) –

• See page 72 for IC Pin Function Description. • See page 65 for Waveform.

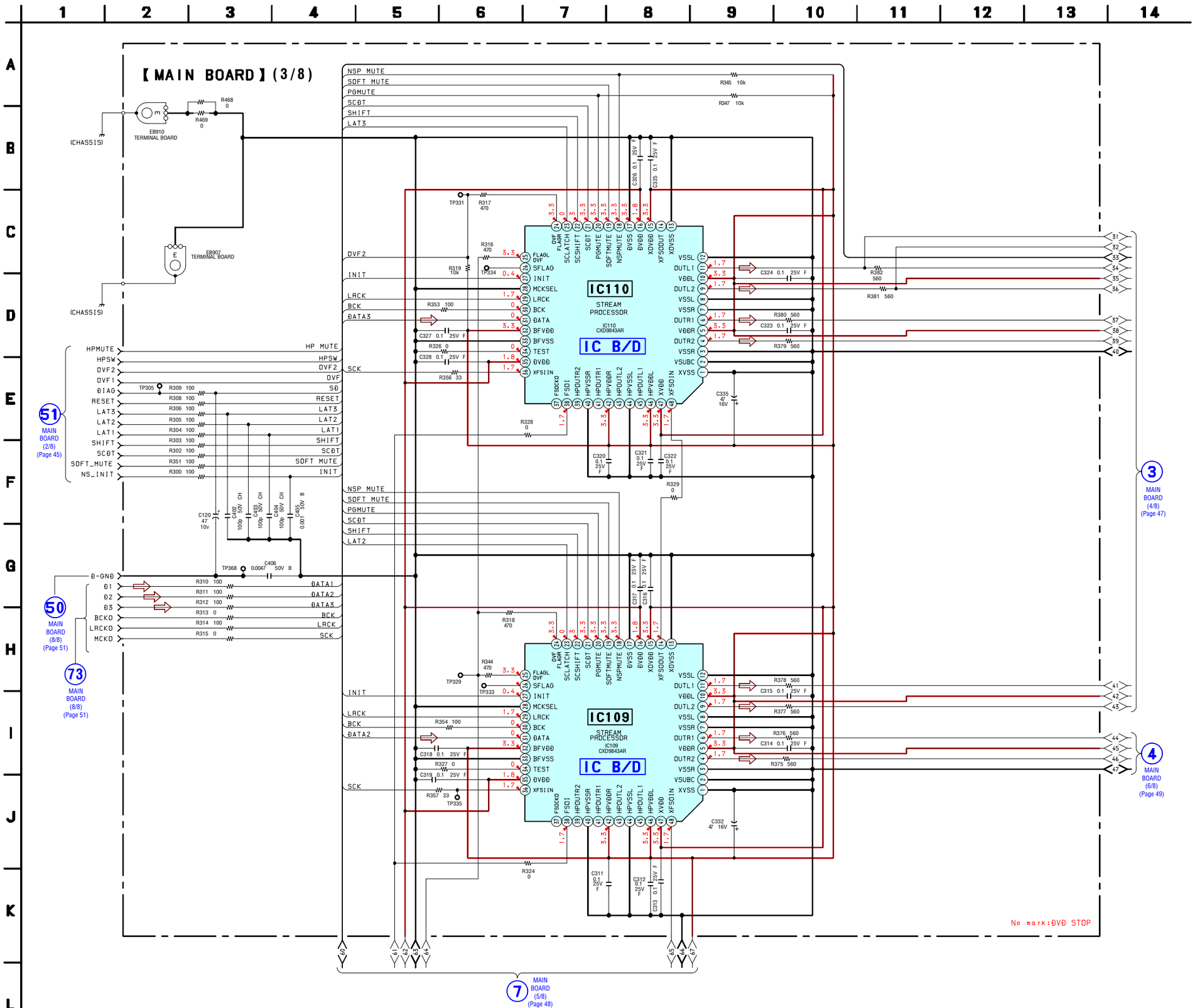


7-13. SCHEMATIC DIAGRAM – MAIN SECTION (2/8) –



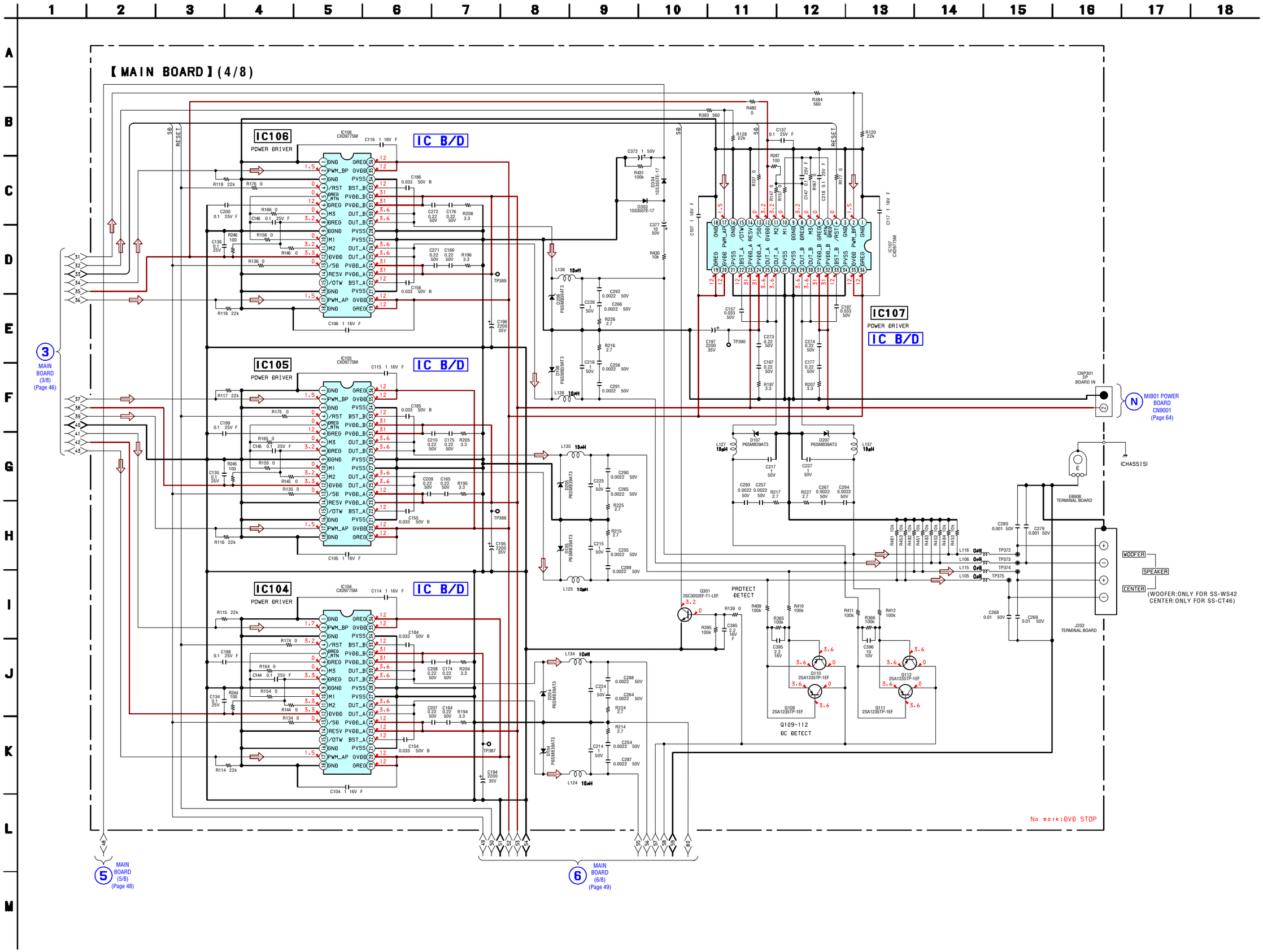
7-14. SCHEMATIC DIAGRAM – MAIN SECTION (3/8) –

• See page 67 for IC Block Diagrams.



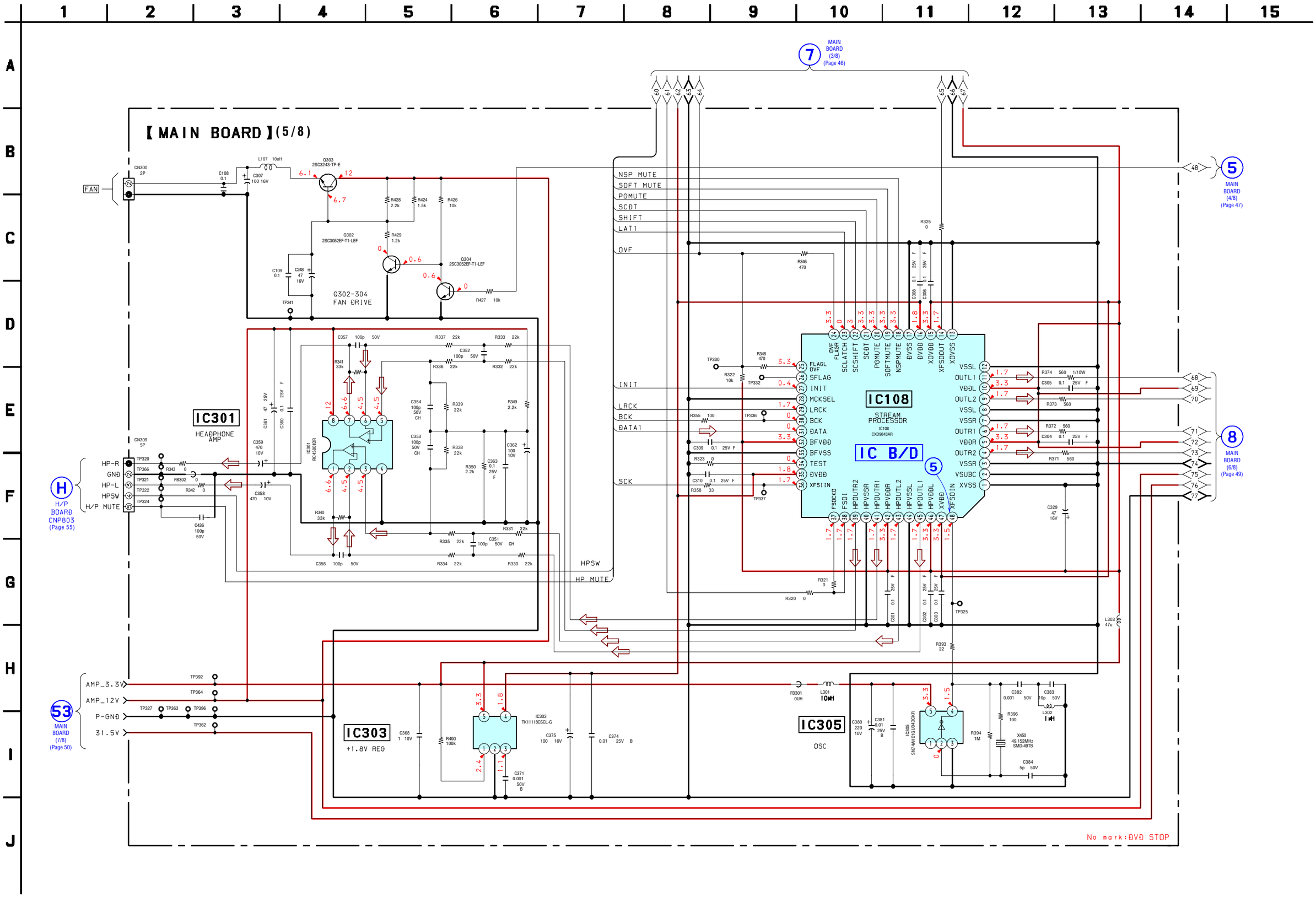
7-15. SCHEMATIC DIAGRAM – MAIN SECTION (4/8) –

• See page 67 for IC Block Diagrams.



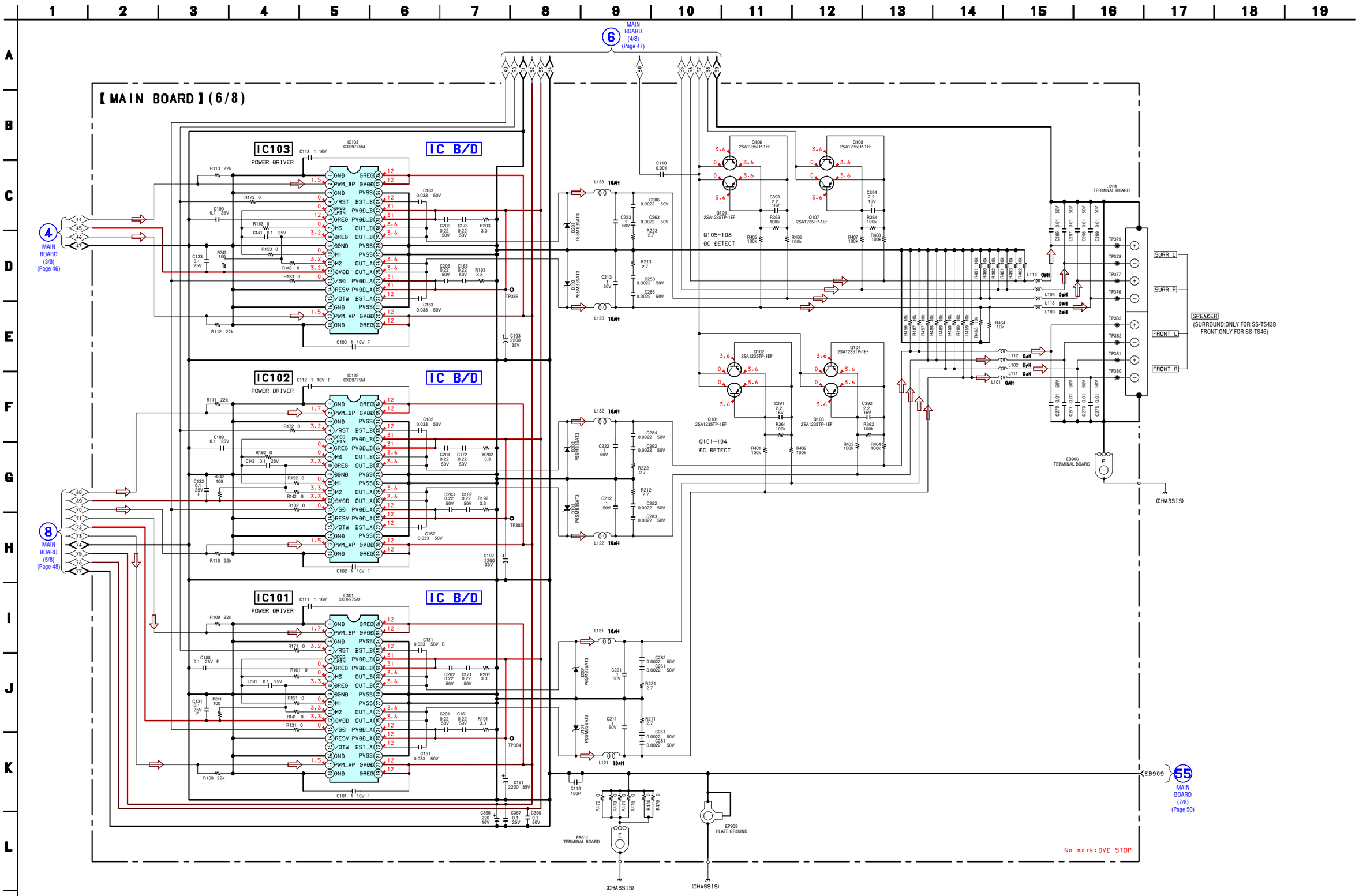
7-16. SCHEMATIC DIAGRAM – MAIN SECTION (5/8) –

• See page 67 for IC Block Diagram. • See page 65 for Waveform.

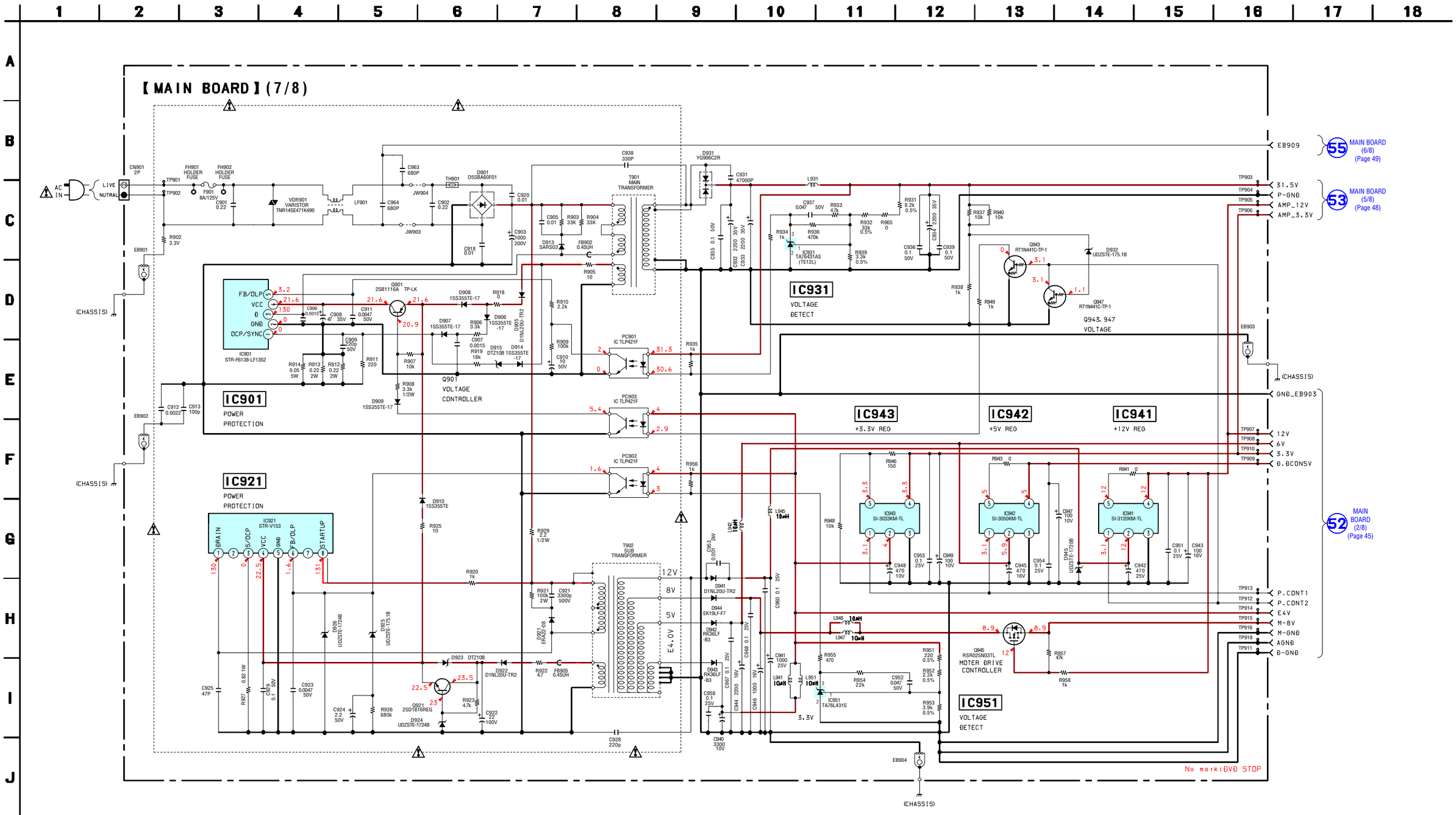


7-17. SCHEMATIC DIAGRAM – MAIN SECTION (6/8) –

• See page 67 for IC Block Diagrams.

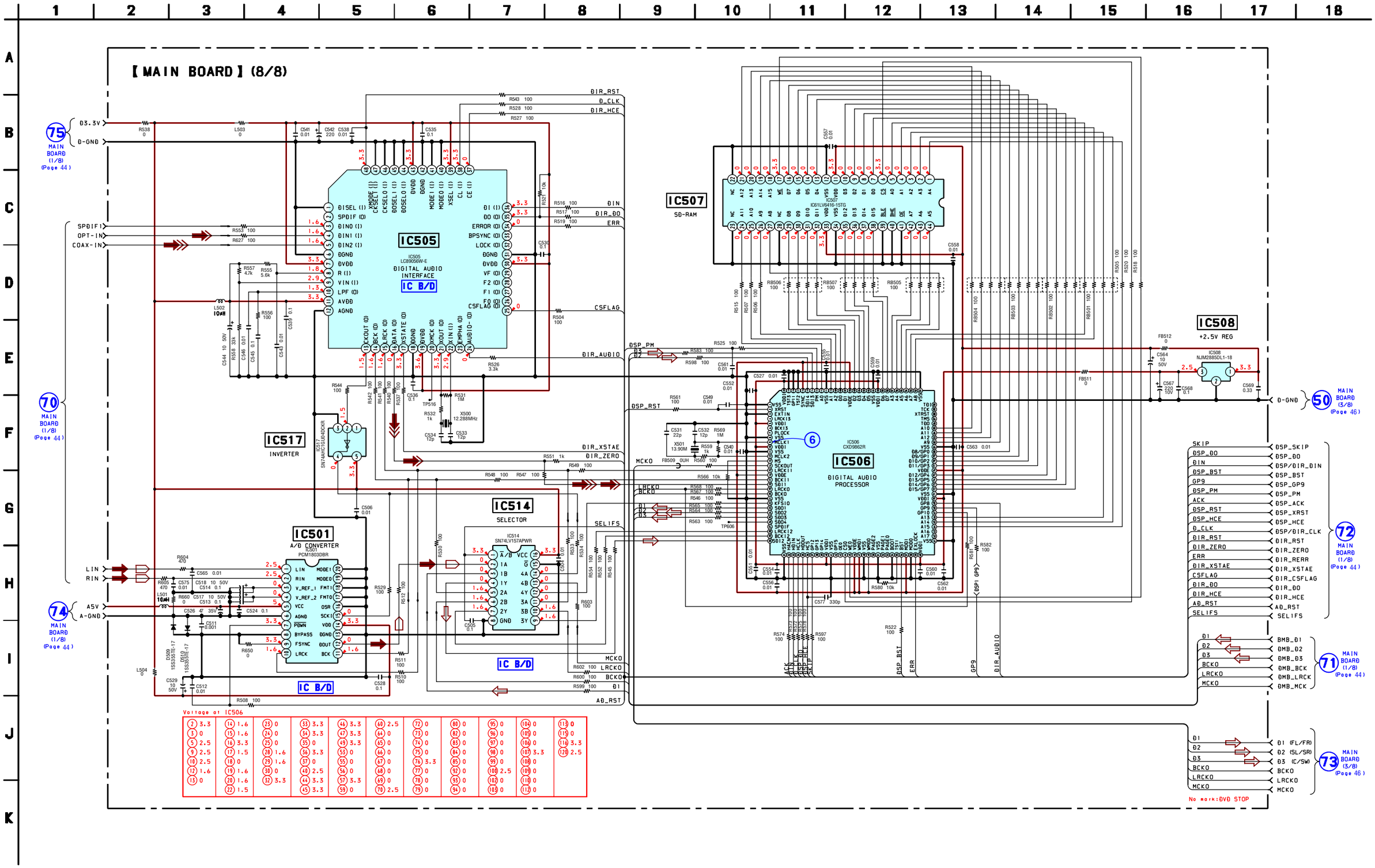


7-18. SCHEMATIC DIAGRAM – MAIN SECTION (7/8) –



7-19. SCHEMATIC DIAGRAM – MAIN SECTION (8/8) –

• See page 70 for IC Pin Function Description. • See page 66, 68 for IC Block Diagrams. • See page 65 for Waveform.

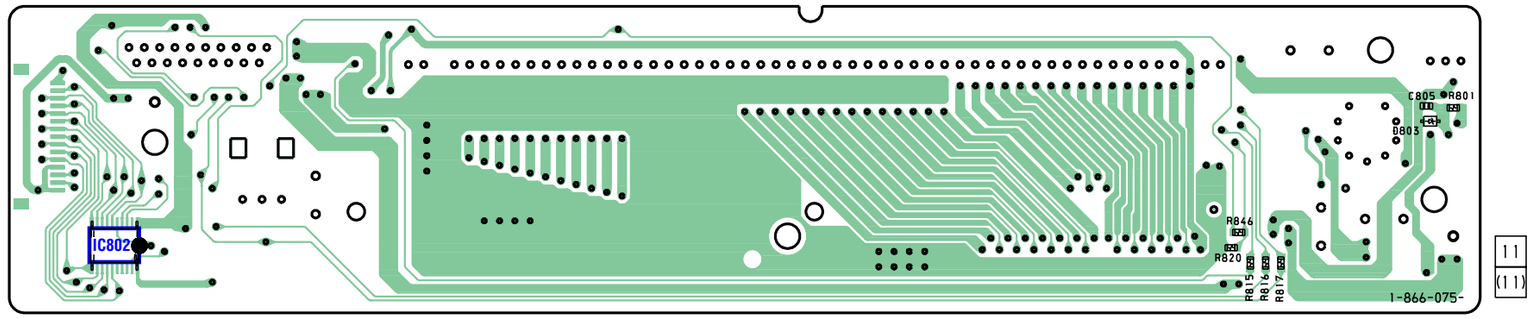


7-20. PRINTED WIRING BOARD – FL/KEY SECTION –

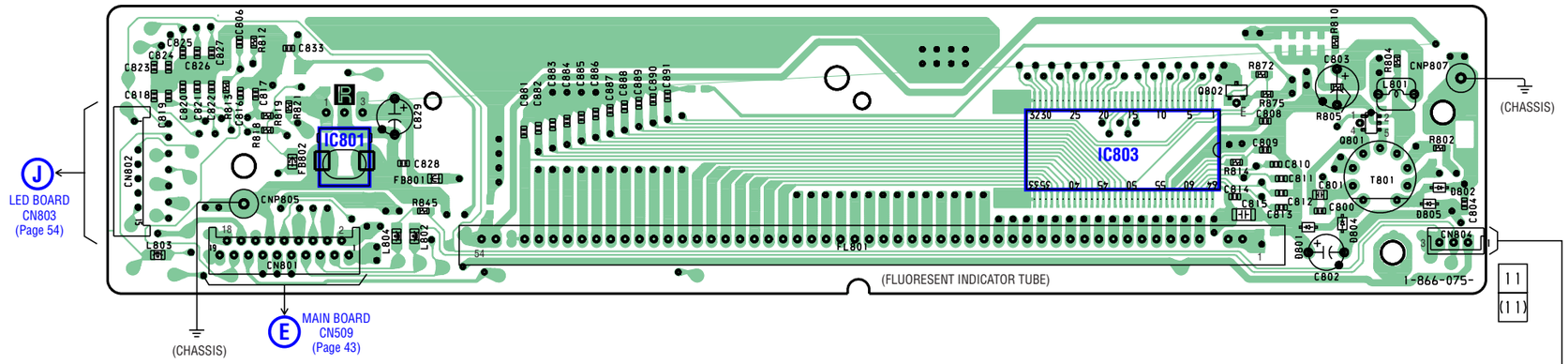
• See page 27 for Circuit Boards Location.

:Uses unleaded solder.

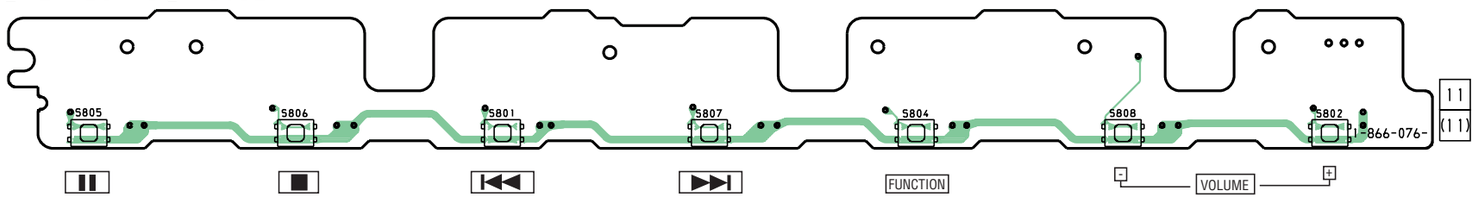
【FL BOARD】(SIDE A)



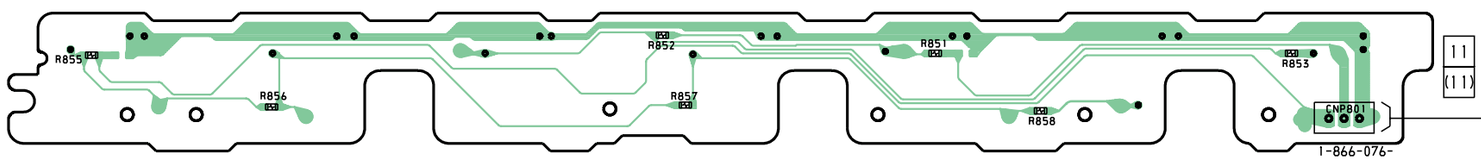
【FL BOARD】(SIDE B)



【KEY BOARD】(SIDE A)



【KEY BOARD】(SIDE B)

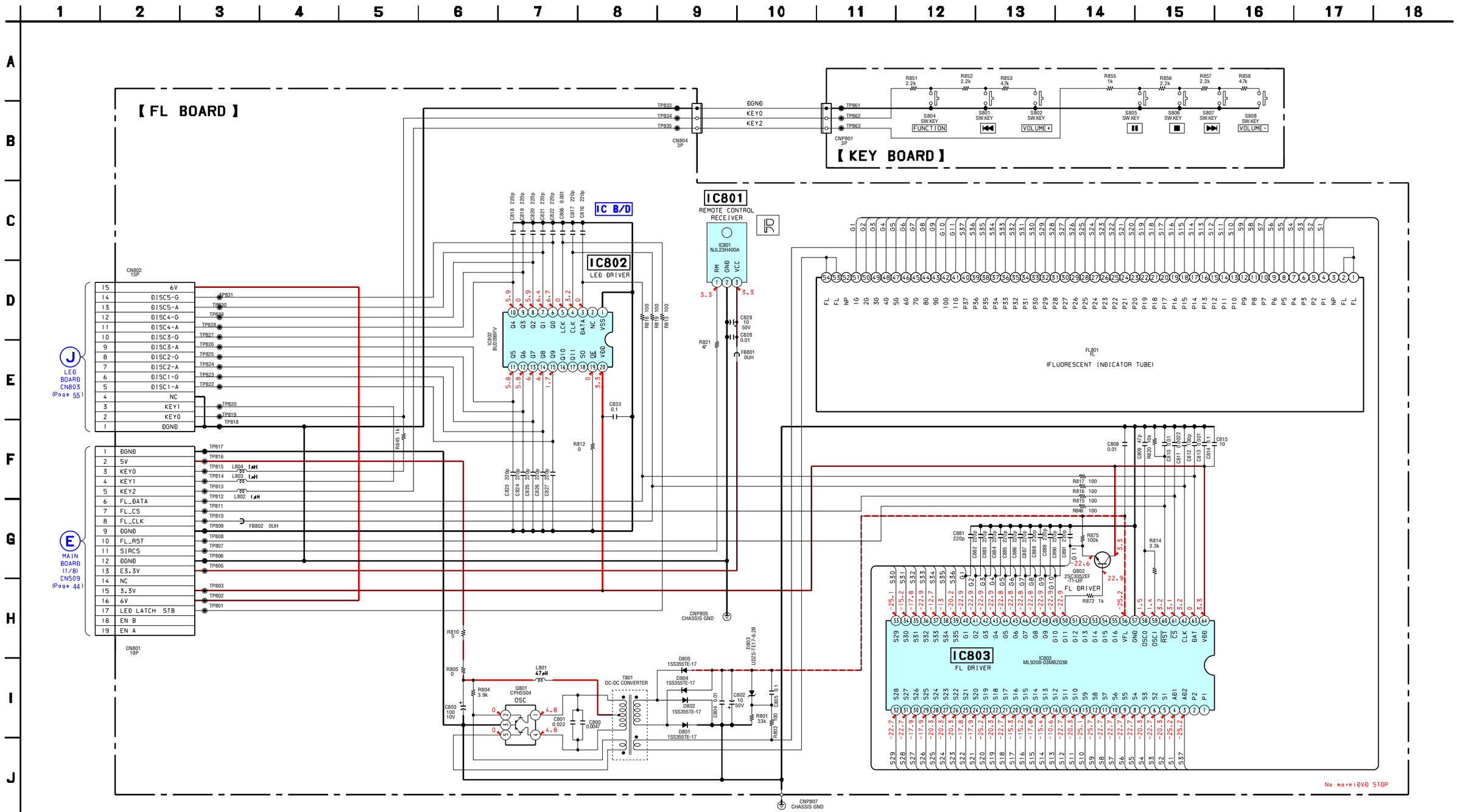


- **Semiconductor Location**

Ref. No.	Location
D801	D-7
D802	C-7
D803	B-7
D804	D-7
D805	C-7
IC801	C-2
IC802	B-2
IC803	C-6
Q801	C-7
Q802	C-6

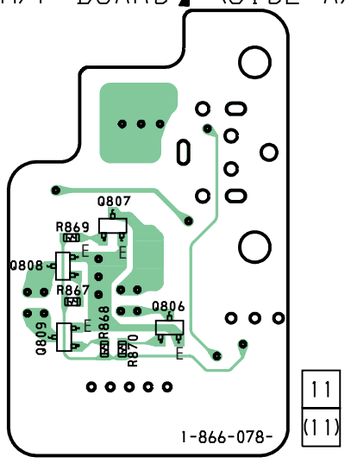
7-21. SCHEMATIC DIAGRAM – FL/KEY SECTION –

• See page 66 for IC Block Diagrams.

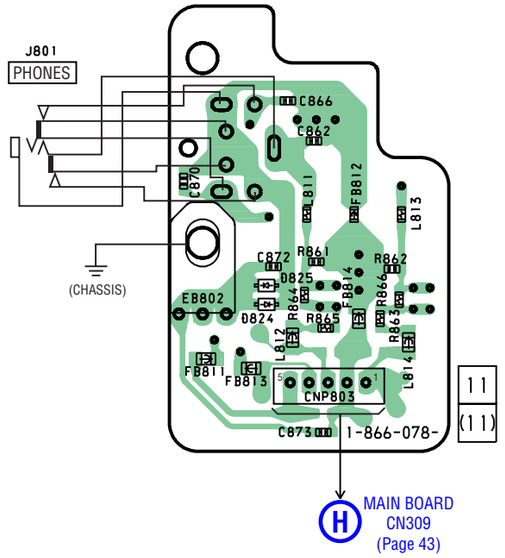


7-22. PRINTED WIRING BOARD – LED / H/P SECTION – • See page 27 for Circuit Boards Location. **:Uses unleaded solder.**

【H/P BOARD】 (SIDE A)



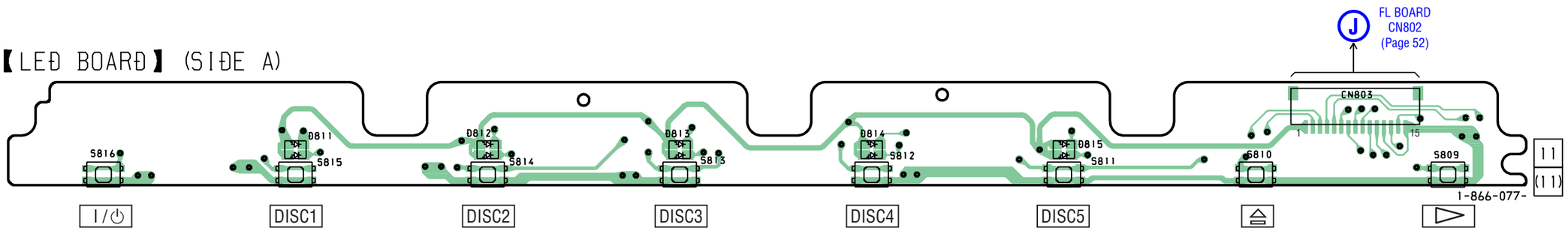
【H/P BOARD】 (SIDE B)



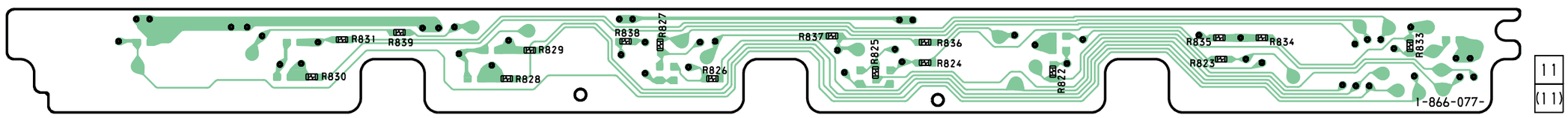
- **Semiconductor Location**

Ref. No.	Location
D811	D-2
D812	D-3
D813	D-4
D814	D-5
D815	D-6
D824	B-5
D825	B-5
Q806	B-3
Q807	B-3
Q808	B-2
Q809	B-2

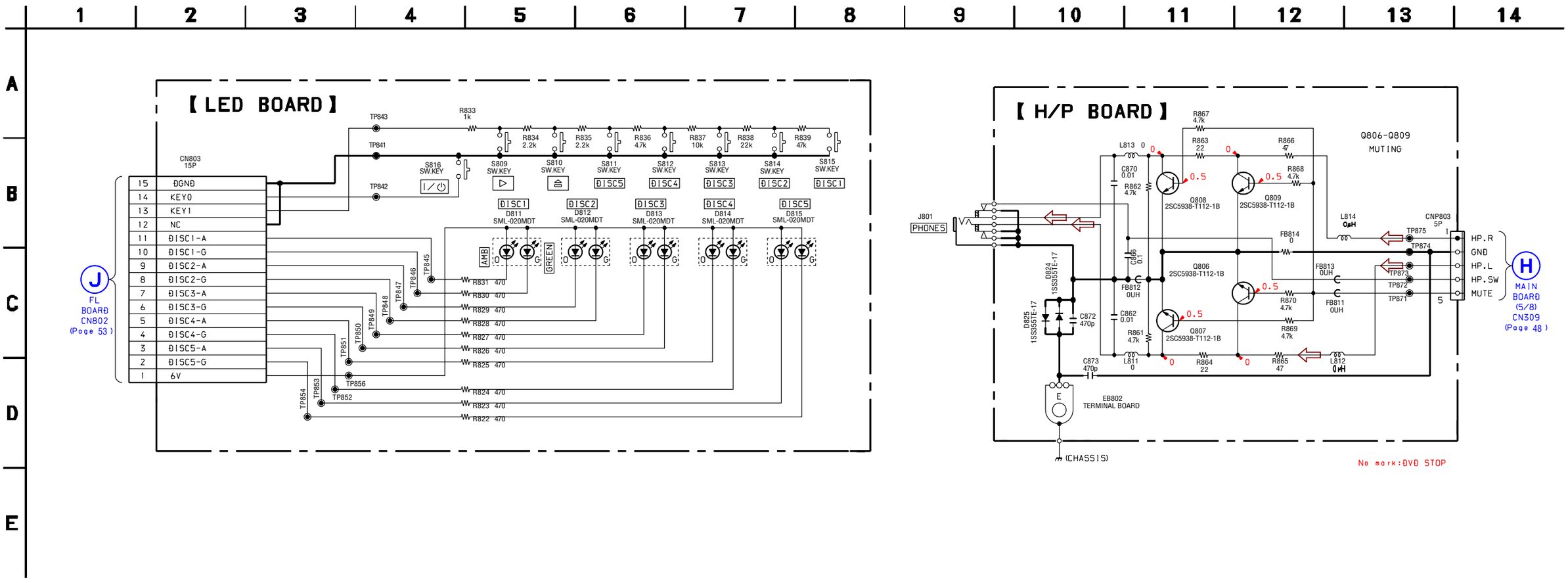
【LED BOARD】 (SIDE A)



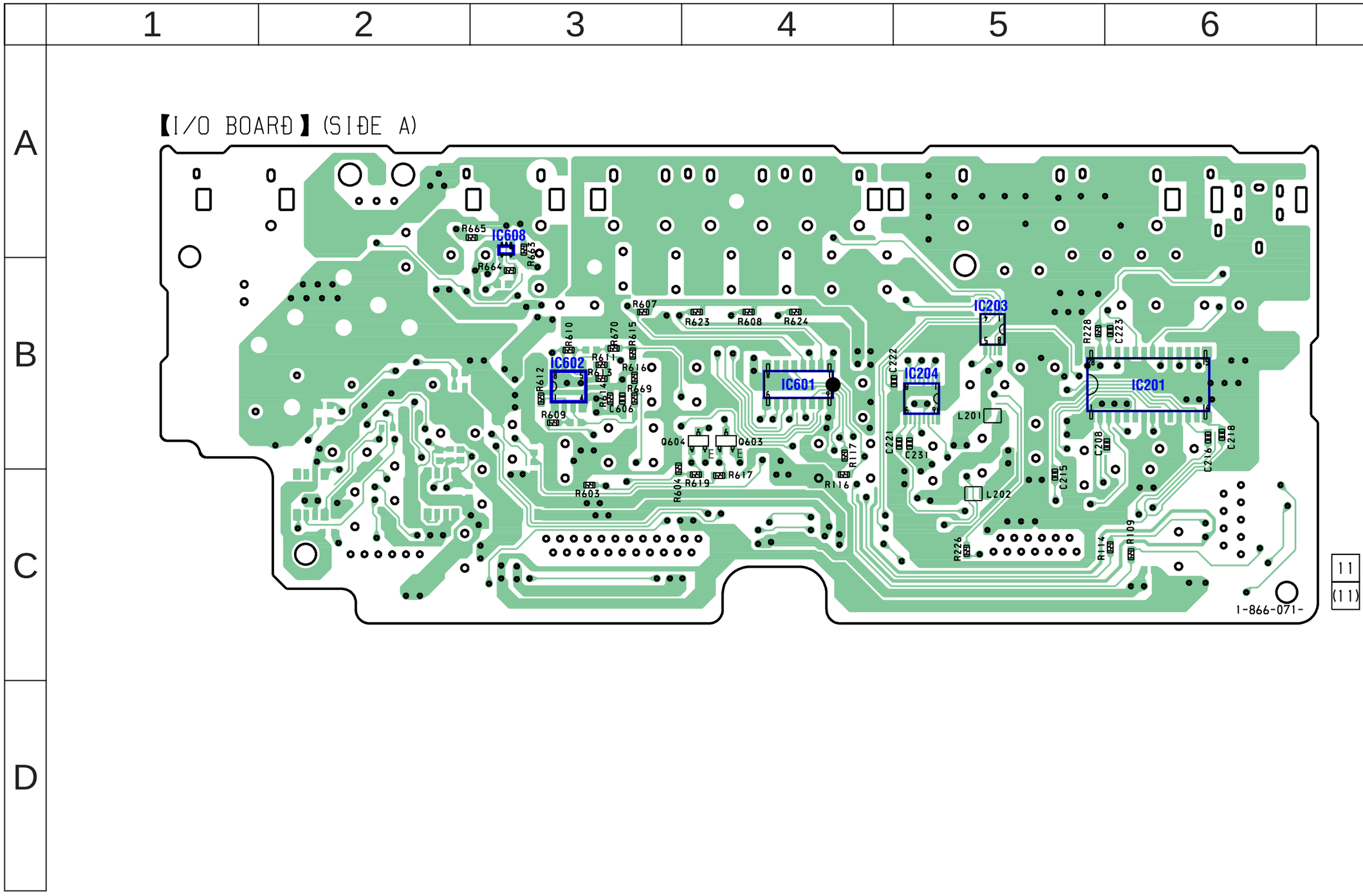
【LED BOARD】 (SIDE B)



7-23. SCHEMATIC DIAGRAM – LED / H/P SECTION –



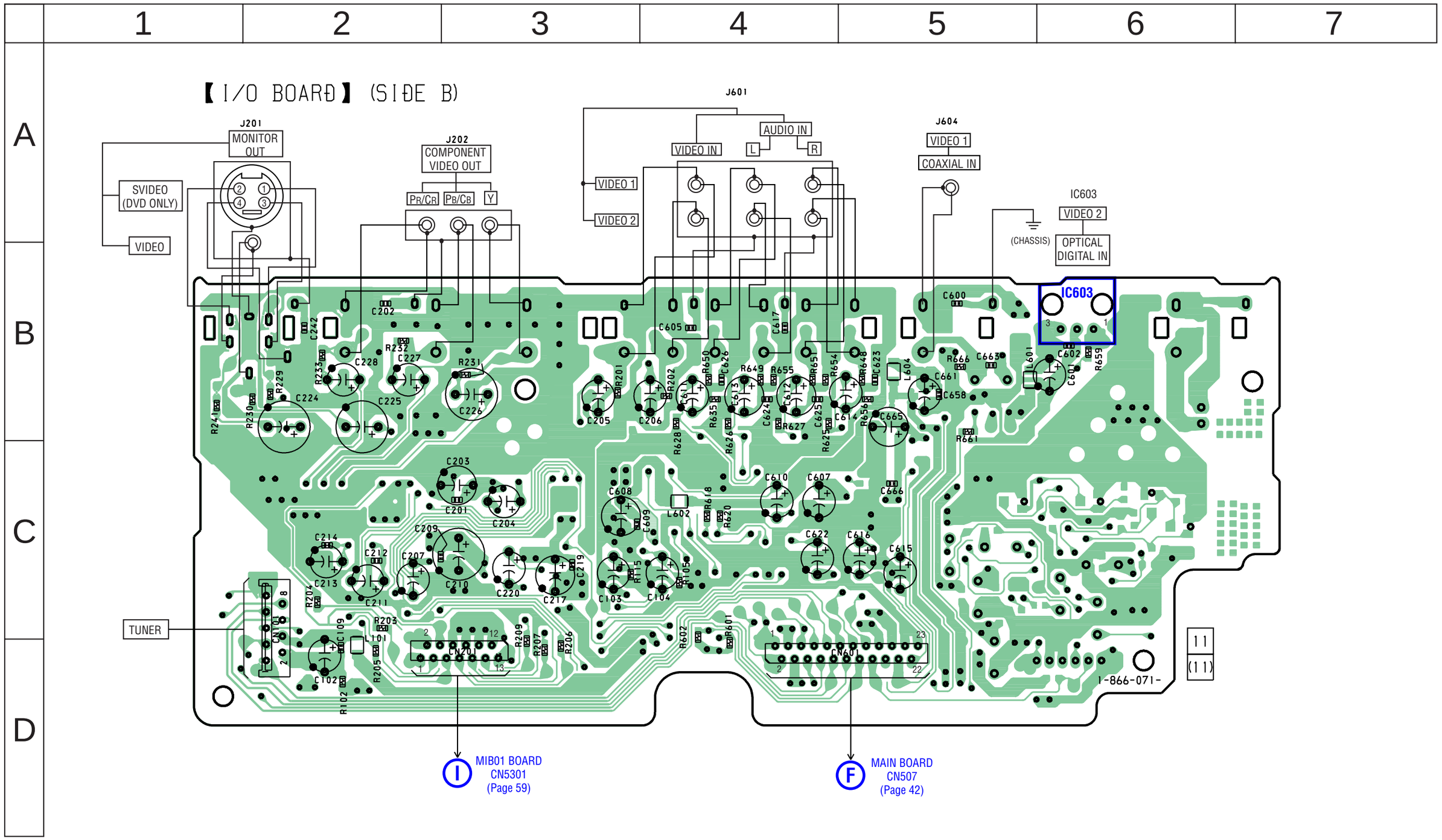
7-24. PRINTED WIRING BOARD – I/O SECTION (SIDE A) – • See page 27 for Circuit Boards Location. **:Uses unleaded solder.**



- **Semiconductor Location**

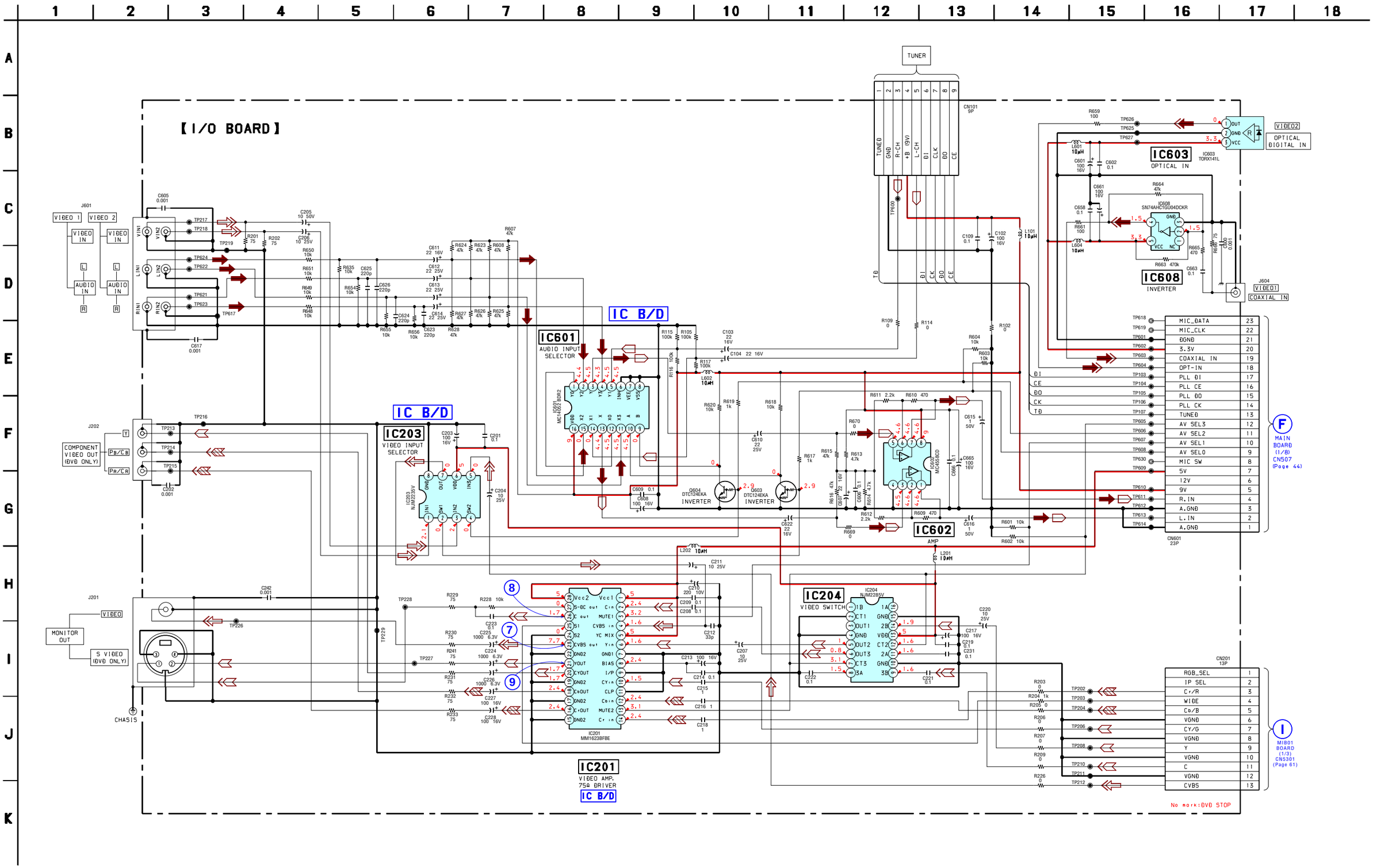
Ref. No.	Location
IC201	B-6
IC203	B-5
IC204	B-5
IC601	B-4
IC602	B-3
IC608	B-3
Q603	B-4
Q604	B-4

7-25. PRINTED WIRING BOARD – I/O SECTION (SIDE B) – • See page 27 for Circuit Boards Location. :Uses unleaded solder.



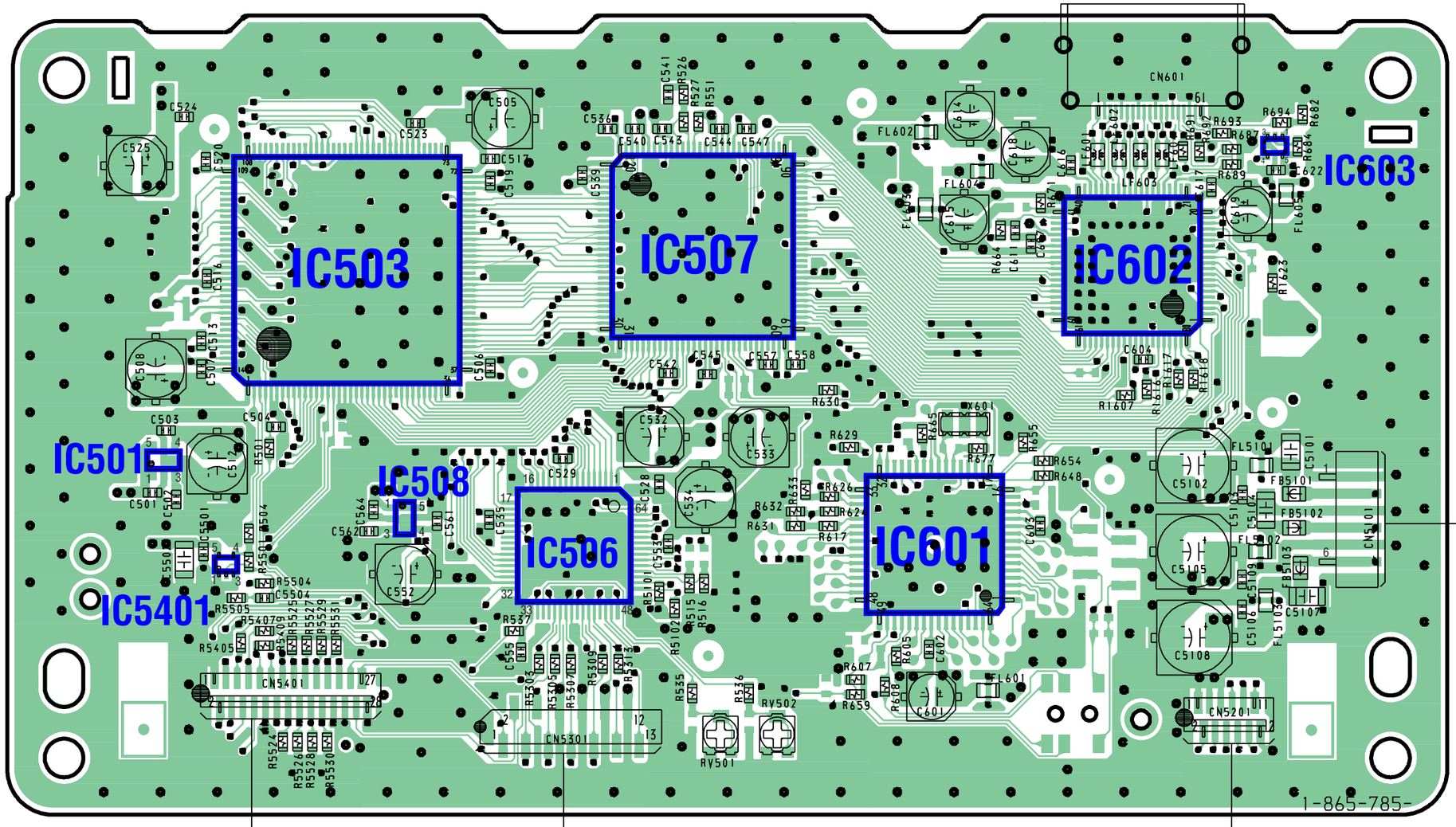
7-26. SCHEMATIC DIAGRAM – I/O SECTION –

• See page 69 for IC Block Diagrams. • See page 65 for Waveform.



7-27. PRINTED WIRING BOARD – MIB01 SECTION (SIDE A) – • See page 27 for Circuit Boards Location. :Uses unleaded solder.

【MIB01 BOARD】(SIDE A)



- **Semiconductor Location**

Ref. No.	Location
IC501	B-1
IC503	B-2
IC506	B-2
IC507	B-3
IC508	B-2
IC601	B-3
IC602	B-4
IC603	A-5
IC5401	C-1

Ⓜ MIB01 POWER BOARD CN9002 (Page 64)

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(11)

Ⓛ DMB10 BOARD CN4801 (Page 36)

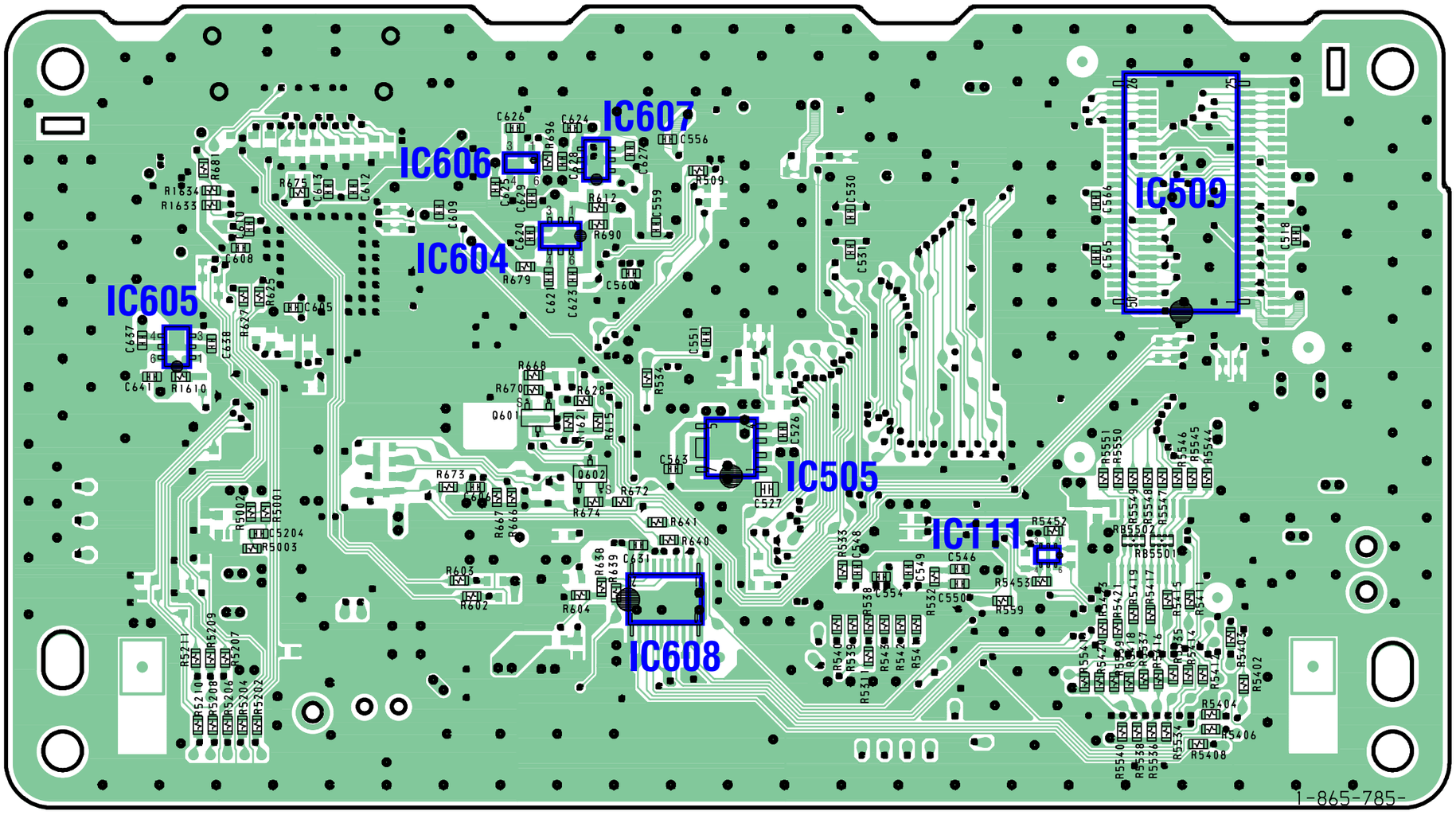
Ⓘ I/O BOARD CN201 (Page 57)

Ⓚ DMB10 BOARD CN4802 (Page 36)

7-28. PRINTED WIRING BOARD – MIB01 SECTION (SIDE B) – • See page 27 for Circuit Boards Location. **:Uses unleaded solder.**

	1	2	3	4	5
A					
B					
C					

【MIB01 BOARD】(SIDE B)



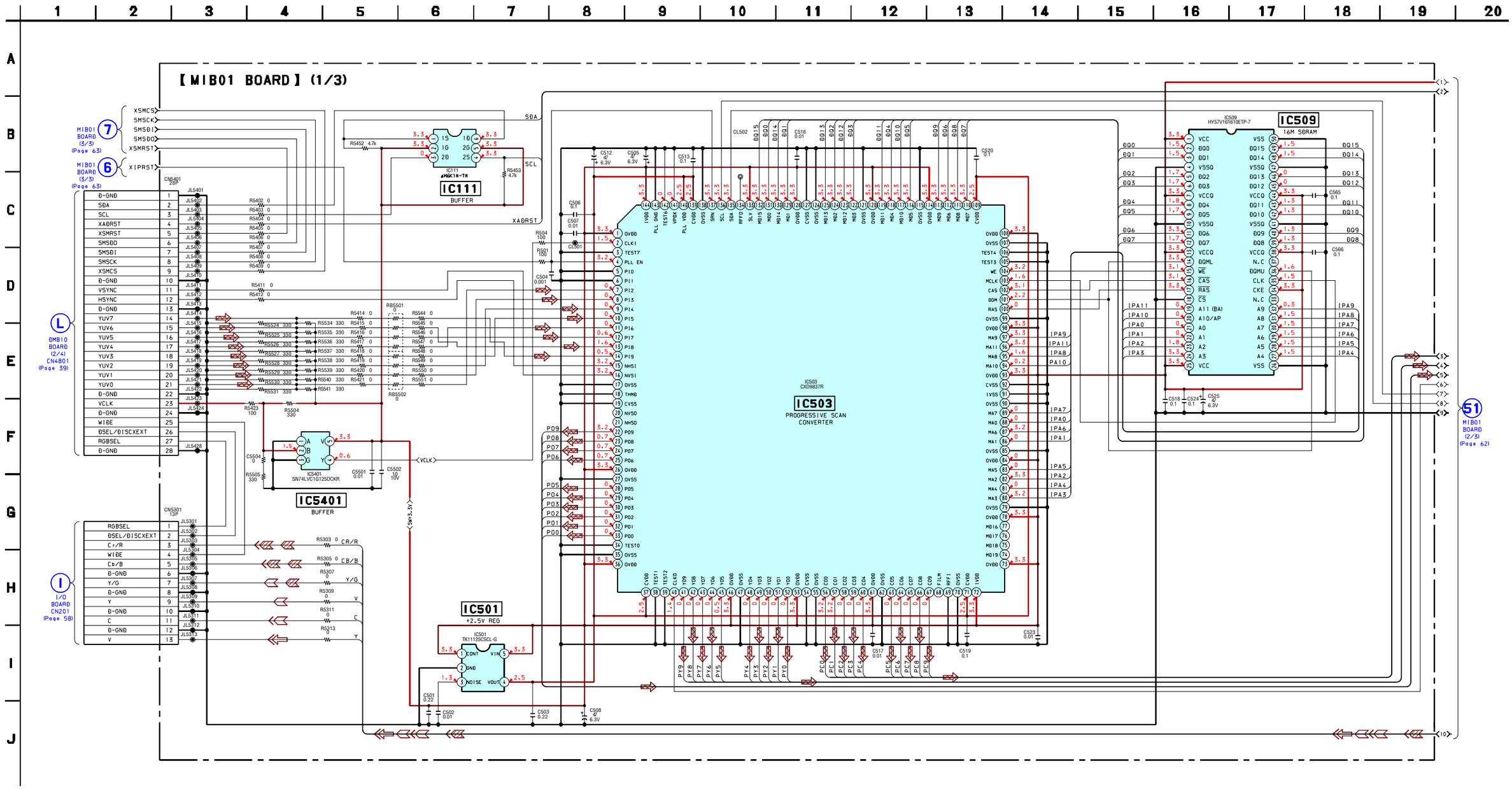
- **Semiconductor Location**

Ref. No.	Location
IC111	C-4
IC505	B-3
IC509	B-4
IC604	B-2
IC605	B-1
IC606	B-2
IC607	A-3
IC608	C-3
Q601	B-2
Q602	B-3

11
(11)

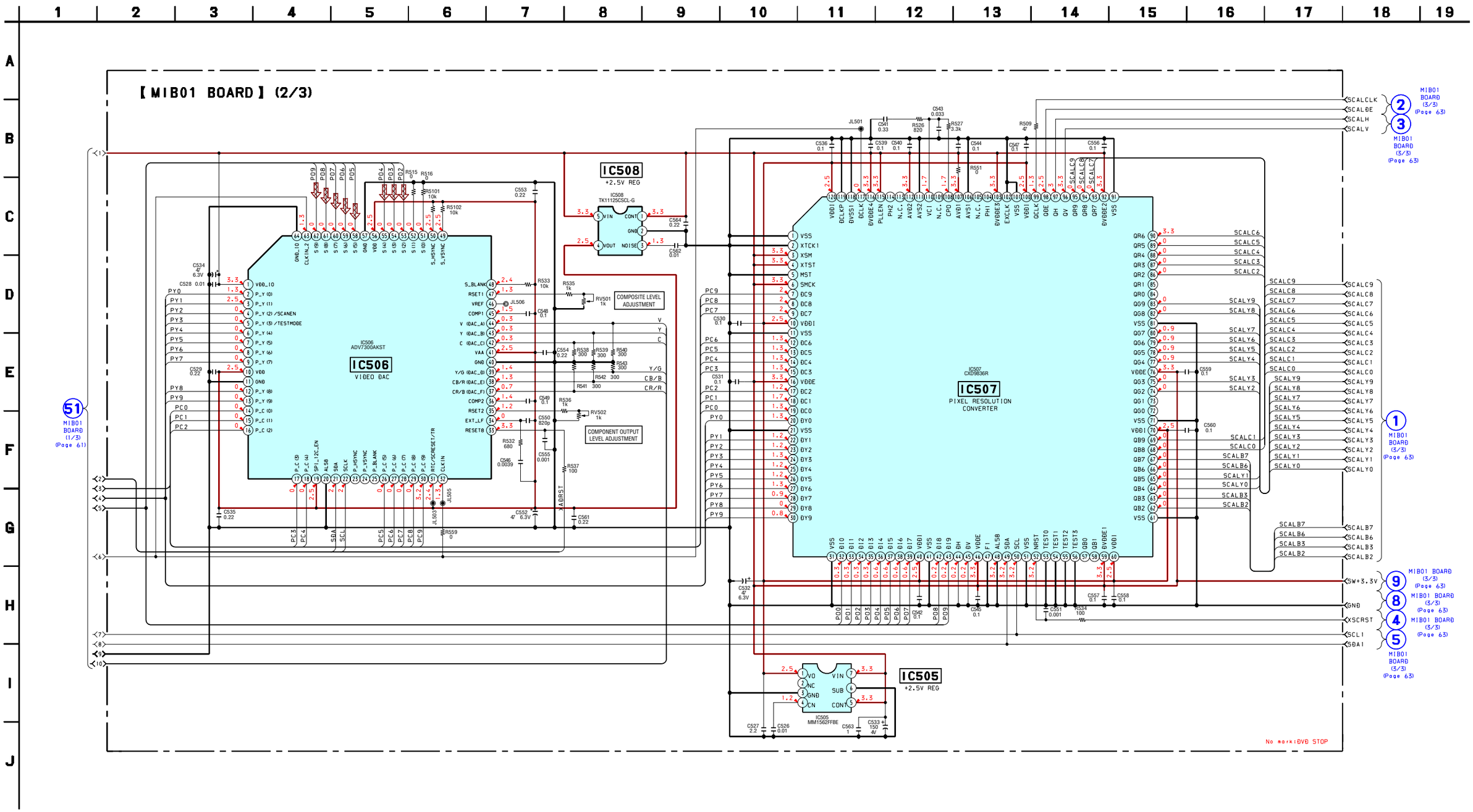
7-29. SCHEMATIC DIAGRAM – MIB01 SECTION (1/3) –

• See page 80 for IC Pin Function Description.



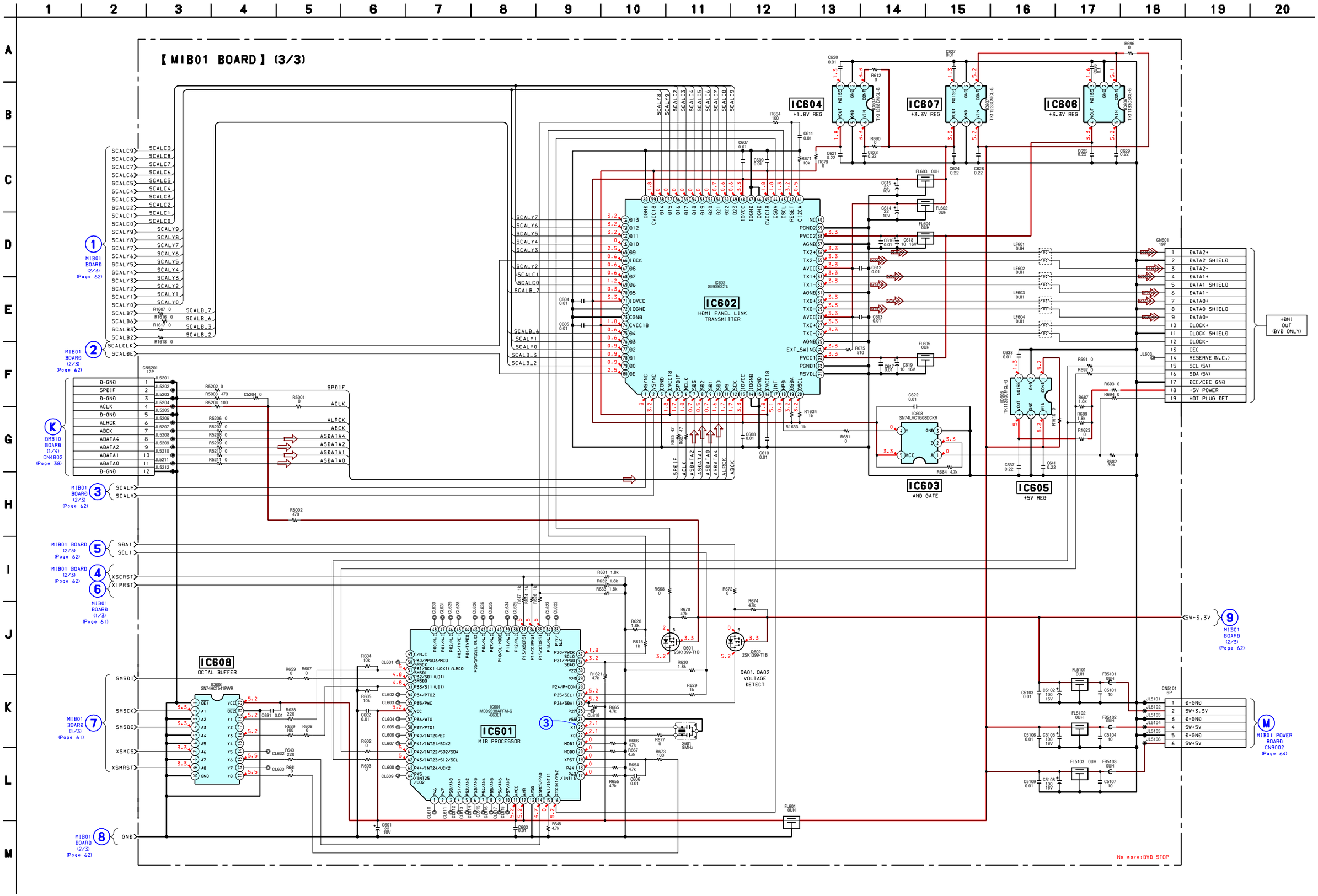
7-30. SCHEMATIC DIAGRAM – MIB01 SECTION (2/3) –

• See page 83 for IC Pin Function Description.



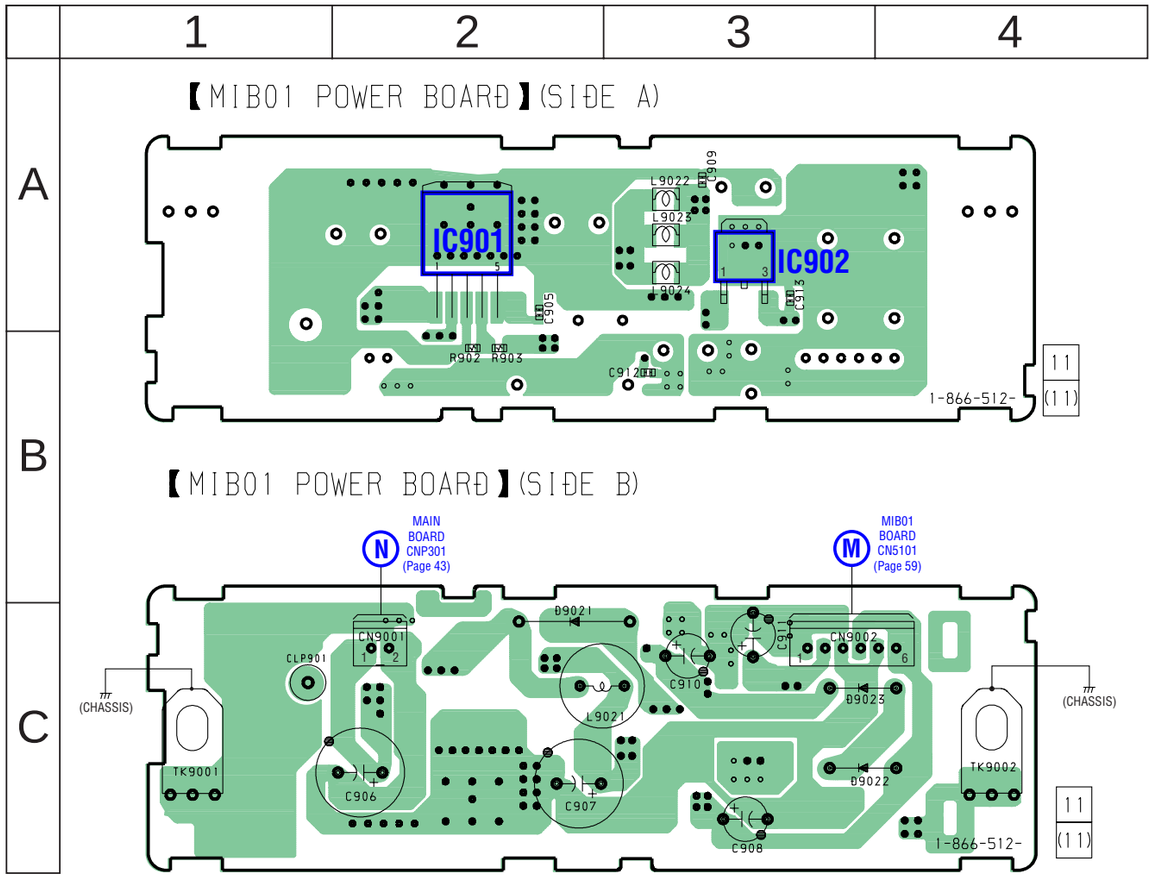
7-31. SCHEMATIC DIAGRAM – MIB01 SECTION (3/3) –

• See page 65 for Waveform.

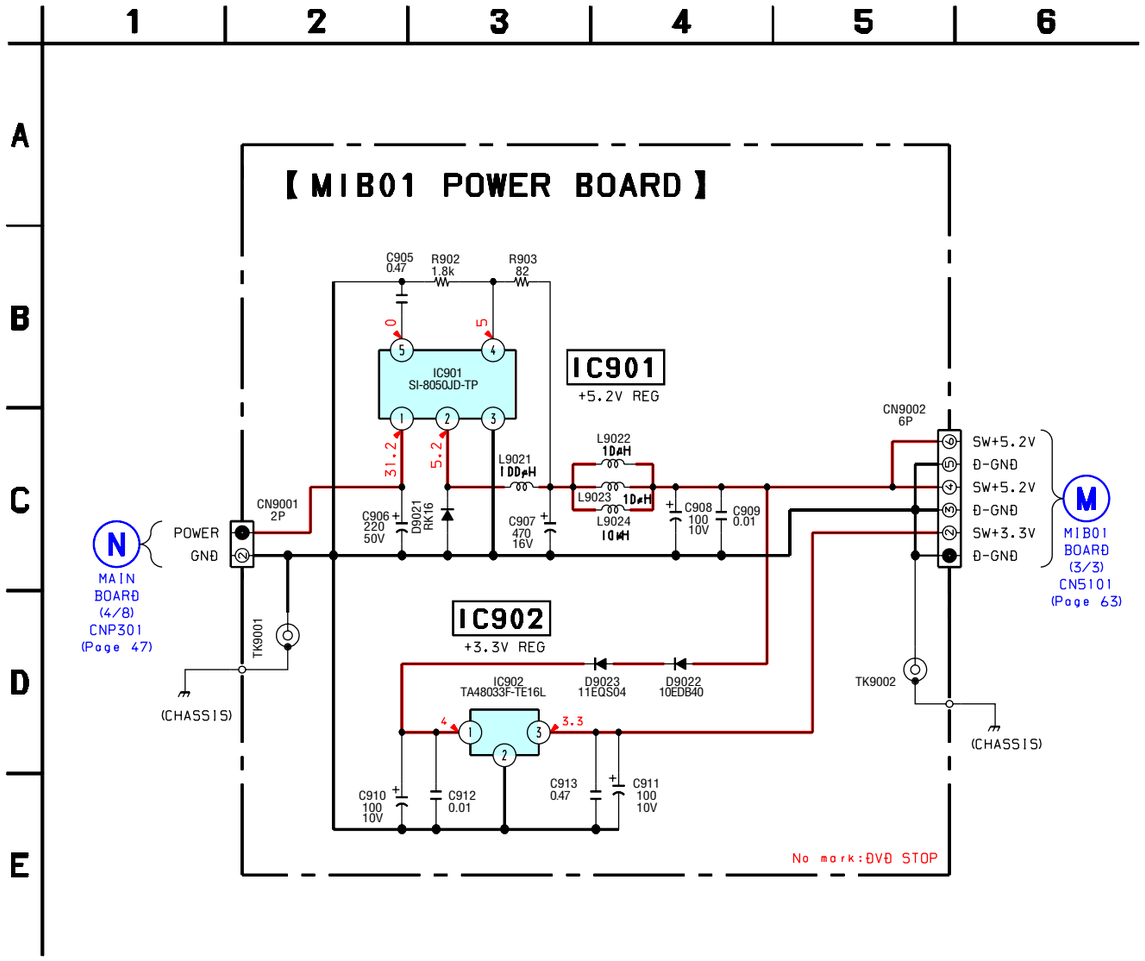


7-32. PRINTED WIRING BOARD – MIB01 POWER SECTION –

• See page 27 for Circuit Boards Location. :Uses unleaded solder.



7-33. SCHEMATIC DIAGRAM – MIB01 POWER SECTION –



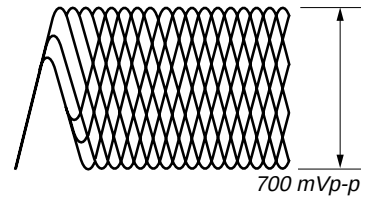
• **Semiconductor Location**

Ref. No.	Location
D9021	C-2
D9022	C-4
D9023	C-4
IC901	A-2
IC902	A-3

• **Waveforms**

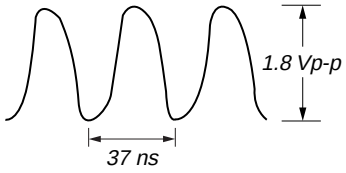
– DMB10 Board –

① **IC102 ⑥ (DVDRFIP)**



200 mV/DIV, 100 ns/DIV

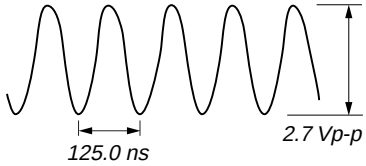
② **IC102 ㉙(XTALI)**



1 V/DIV, 10 ns/DIV

– MIB01 Board –

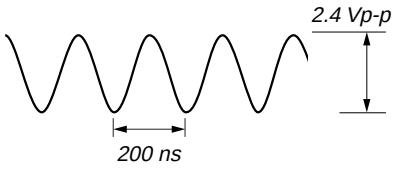
③ **IC601 ㉓ (X1)**



1 V/DIV, 100 ns/DIV

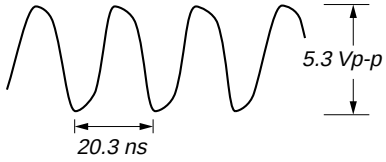
– MAIN Board –

④ **IC509 ⑮ (Xin)**



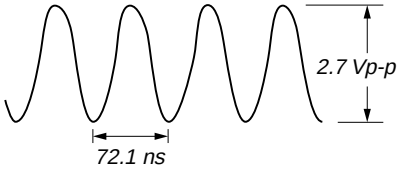
1 V/DIV, 100 ns/DIV

⑤ **IC108 ㊽ (XFSOIN)**



1 V/DIV, 10 ns/DIV

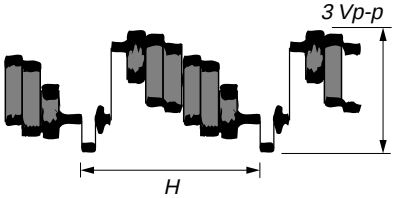
⑥ **IC506 ⑨ (MCLK1)**



1 V/DIV, 50 ns/DIV

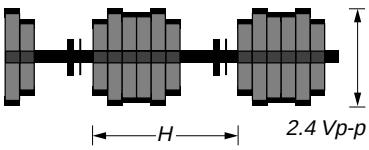
– I/O Board –

⑦ **IC201 ㉓ (CVBS OUT)**



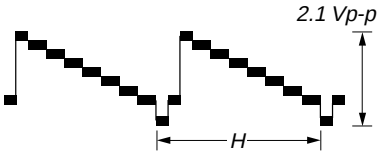
1 V/DIV, 20 µs/DIV

⑧ **IC201 ㉖ (COUT)**



1 V/DIV, 20 µs/DIV

⑨ **IC201 ㉑ (YOUT)**

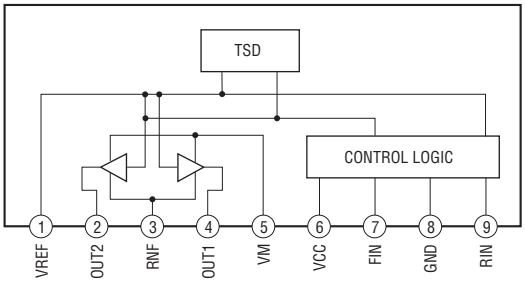


1 V/DIV, 20 µs/DIV

- **IC Block Diagrams**

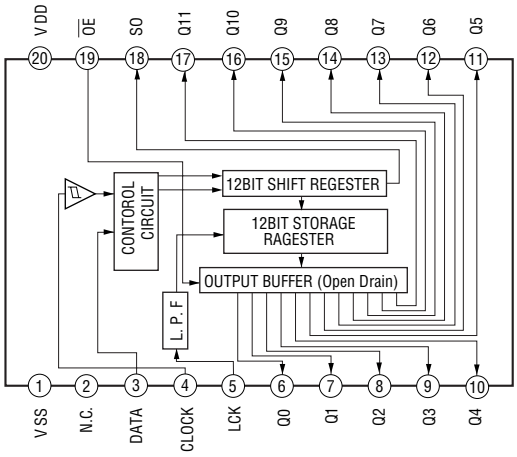
– RELAY Board –

IC701, 711, 721 BA6956AN



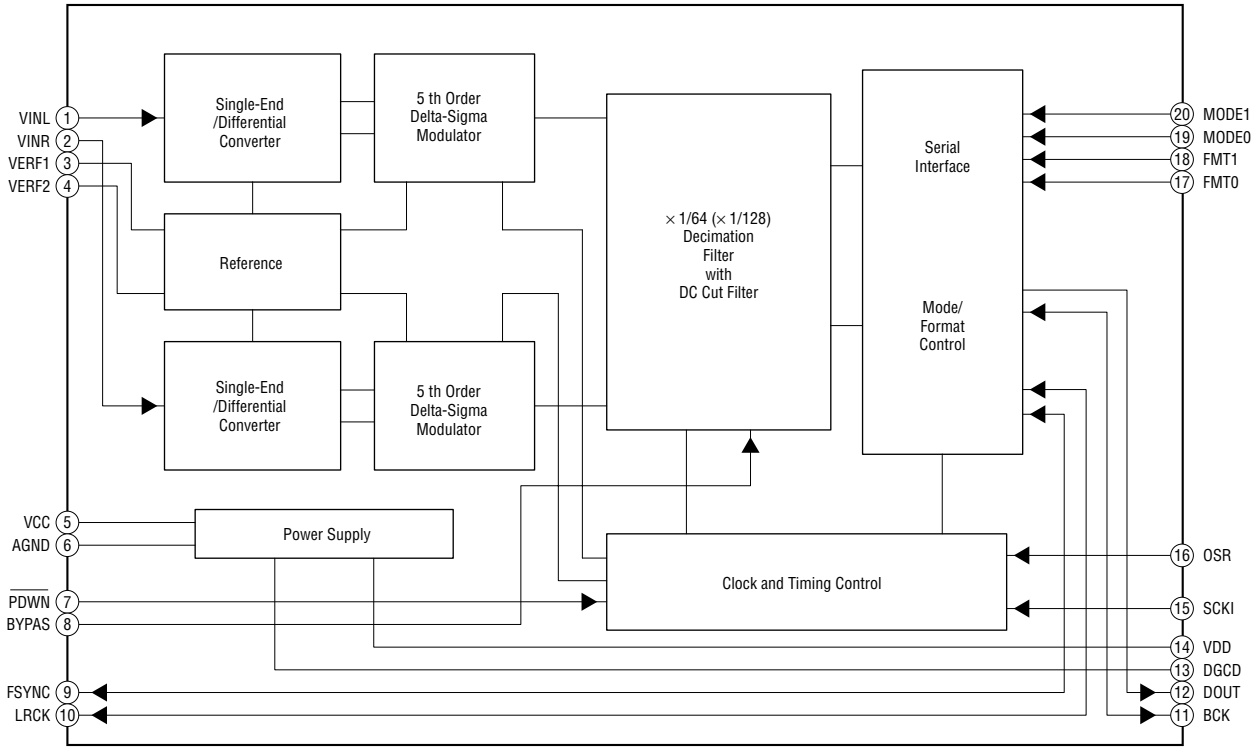
– FL Board –

IC802 BU2099FV

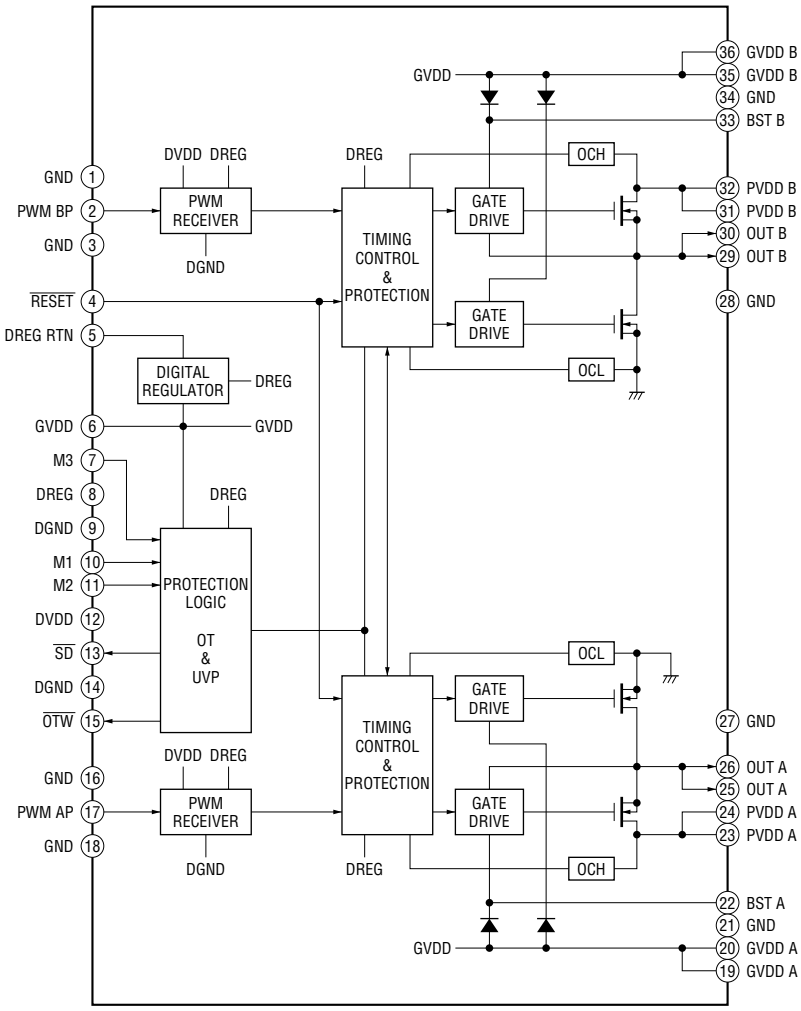


– MAIN Board –

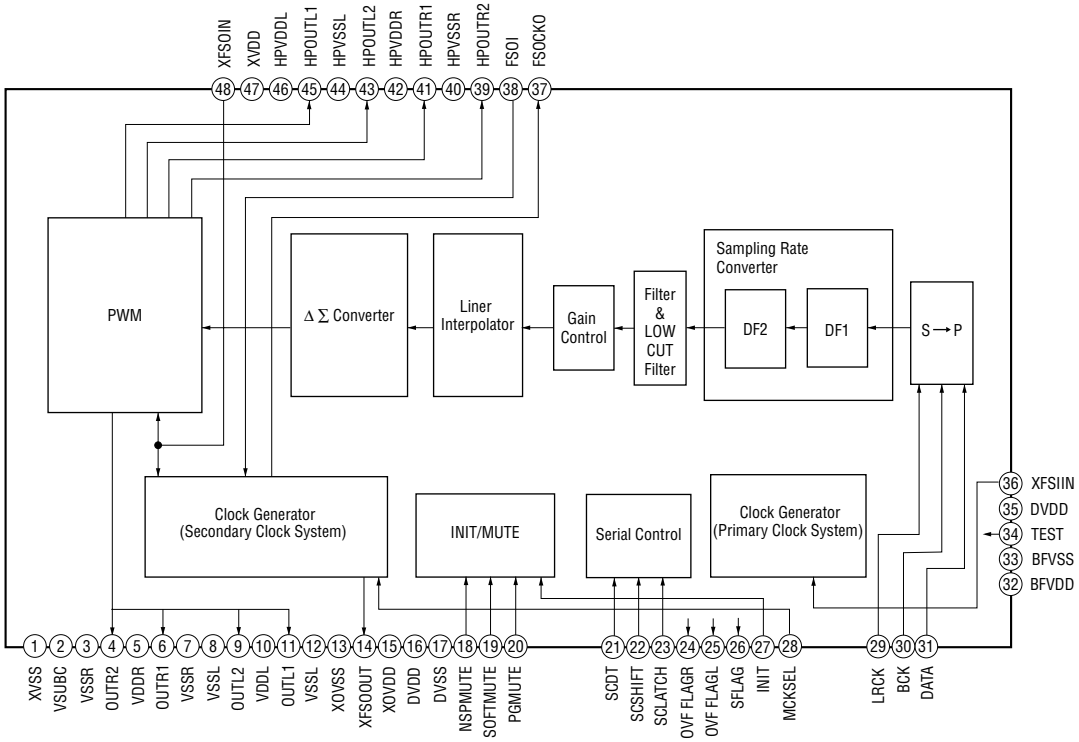
IC501 PCM1803DBR



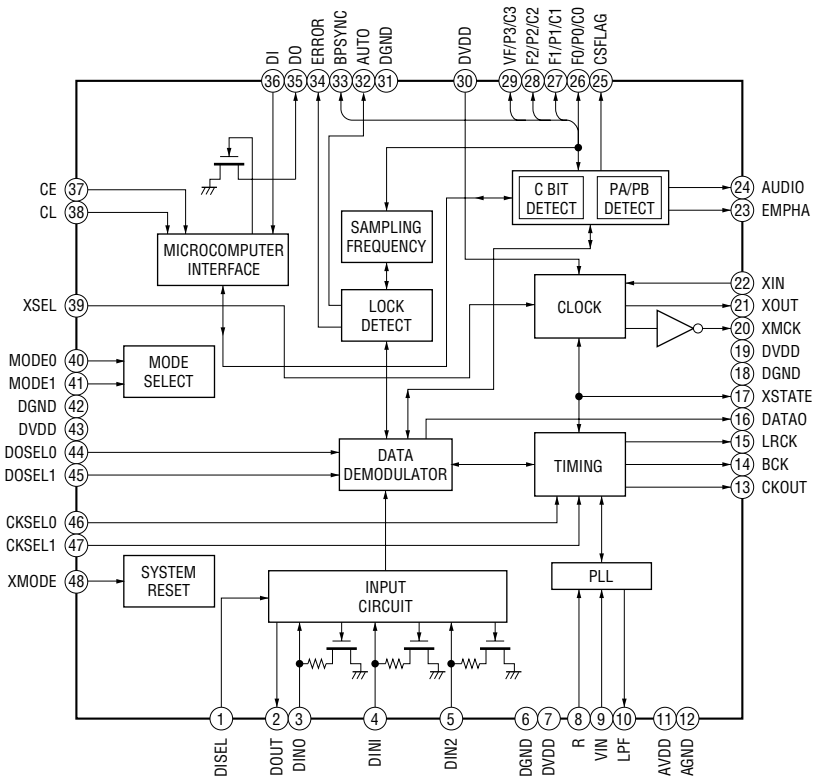
IC101-107 CXD9775M



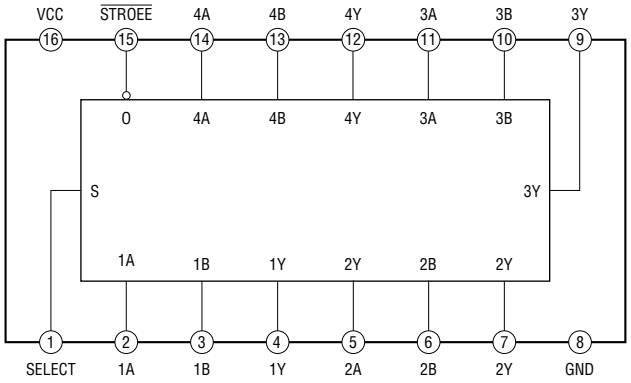
IC108, 109, 110 CXD9843AR



IC505 LC89056W-E

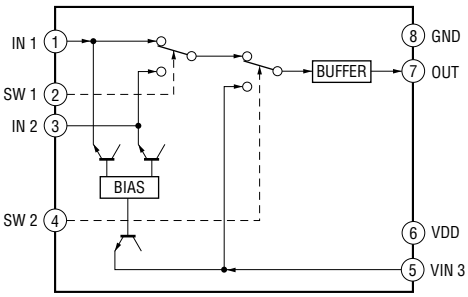


IC514 SN74LV157APWR

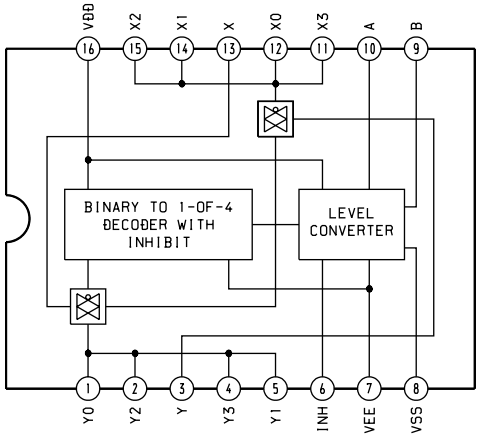


– I/O Board –

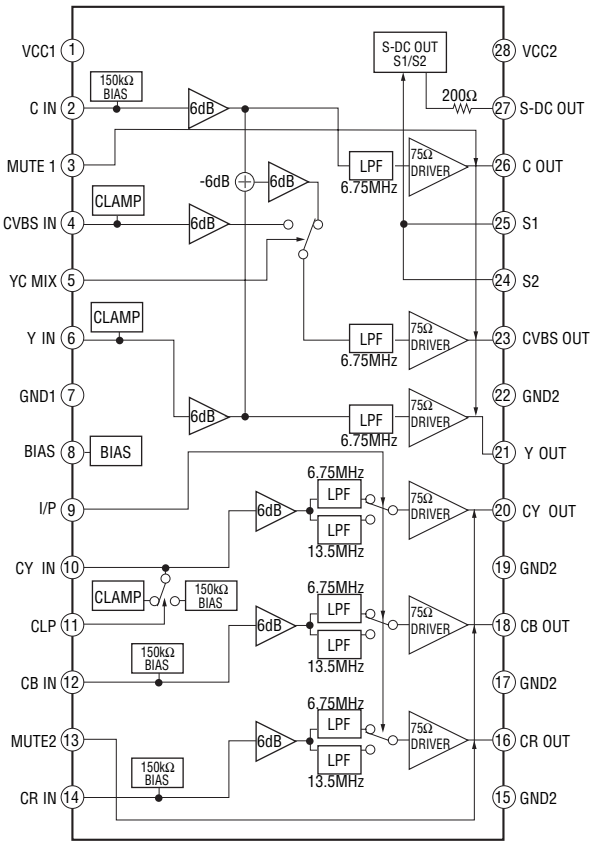
IC203 NJM2235V (TE2)



IC601 MC14052BDR2



IC201 MM1623BFBE



• IC Pin Function Description

MAIN BOARD IC506 CXD9862R (DIGITAL AUDIO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	XRST	I	System reset signal input from the system controller “L”: reset
3	EXTIN	I	Master clock signal input terminal (not used)
4	LRCKI3	I	L/R sampling clock signal input terminal (not used)
5	VDDI	—	Power supply terminal (+2.5V)
6	BCKI3	I	Bit clock signal input terminal (not used)
7	PLOCK	O	Internal PLL lock signal output terminal (not used)
8	VSS	—	Ground terminal
9	MCLK1	I	System clock input terminal (13.9 MHz)
10	VDDI	—	Power supply terminal (+2.5V)
11	VSS	—	Ground terminal
12	MCLK2	O	System clock output terminal (13.9 MHz)
13	MS	I	Master/slave setting terminal “L”: internal clock, “H”: external clock (fixed at “L” in this set)
14	SCKOUT	O	Internal system clock output to the stream processor
15	LRCKI1	I	L/R sampling clock signal input from the digital audio interface
16	VDDE	—	Power supply terminal (+3.3V)
17	BCKI1	I	Bit clock signal input from the digital audio interface
18	SDI1	I	Audio serial data input from the digtal audio interface
19	LRCKO	O	L/R sampling clock signal output to the stream processor
20	BCKO	O	Bit clock signal output to the stream processor
21	VSS	—	Ground terminal
22	KFSIO	I	Audio clock signal input from DSP
23 to 25	SDO1 to SDO3	O	Audio serial data output to the stream processor
26	SDO4	O	Audio serial data output terminal (not used)
27	SPDIF	O	SPDIF signal output terminal (not used)
28	LRCKI2	I	L/R sampling clock signal input from DSP
29	BCKI2	I	Bit clock signal input from DSP
30	SDI2	I	Audio serial data input from the digital audio interface
31	VSS	—	Ground terminal
32	HACN	O	Acknowledge signal output to the system controller
33	HDIN	I	Serial data input from the system controller
34	HCLK	I	Serial data transfer clock signal input from the system controller
35	HDOUT	O	Serial data output to the system controller
36	HCS	I	Chip select input from the system controller
37	GP12	I	Write signal input from the system controller
38	GP13	O	SD-RAM chip enable output terminal (not used)
39	GP14	O	Row address strobe signal output terminal (not used)
40	VDDI	—	Power supply terminal (+2.5V)
41	VSS	—	Ground terminal
42	GP15	O	Column address strobe signal output terminal (not used)
43	OE0	O	Output terminal of data output mask (not used)
44	CS0	O	Chip select signal output to the S-RAM
45	WE0	O	Write enable signal output to the S-RAM
46	VDDE	—	Power supply terminal (+3.3V)
47	WMD1	I	External memory wait mode setting terminal (fixed at “H” in this set)
48	VSS	—	Ground terminal

Pin No.	Pin Name	I/O	Description
49	WMD0	I	External memory wait mode setting terminal (fixed at “H” in this set)
50	PAGE2	O	External memory page selection signal output terminal (not used)
51	VSS	—	Ground terminal
52, 53	PAGE1, PAGE0	O	External memory page selection signal output terminal (not used)
54	BOOT	I	Boot mode control signal input terminal (not used)
55	TST1	O	Not used
56	BST	I	Boot strap signal input from the system controller
57	MOD1	I	Operation mode setting terminal “L”: enhanced mode, “H”: normal mode (fixed at “H” in this set)
58	MOD0	I	Operation mode setting terminal “L”: single chip mode, “H”: can not use (fixed at “L” in this set)
59	EXLOCK	I	PLL lock error signal and data error flag input from the digital audio interface
60	VDDI	—	Power supply terminal (+2.5V)
61	VSS	—	Ground terminal
62, 63	A17, A16	O	Address signal output terminal (not used)
64 to 66	A15 to A13	O	Address signal output to the S-RAM
67	GP10	I	L/R sampling clock signal input terminal
68	GP9	O	Read ready signal output to the system controller
69	GP8	I	Channel status bit 1 input from the digital audio interface receiver
70	VDDI	—	Power supply terminal (+2.5V)
71	VSS	—	Ground terminal
72 to 75	D15 to D12	I/O	Two-way data bus with the S-RAM
76	VDDE	—	Power supply terminal (+3.3V)
77 to 80	D11 to D8	I/O	Two-way data bus with the S-RAM
81	VSS	—	Ground terminal
82 to 85	A9, A12 to A10	O	Address signal output to the S-RAM
86	TDO	O	Simplicity emulation data output terminal (not used)
87	TMS	I	Simplicity emulation data input start and end terminal (not used)
88	XTRST	I	Simplicity emulation non-sync break signal input terminal (not used)
89	TCK	I	Simplicity emulation clock signal input terminal (not used)
90	TDI	I	Simplicity emulation data input terminal (not used)
91	VSS	—	Ground terminal
92 to 97	A8 to A3	O	Address signal output to the S-RAM
98, 99	D7, D6	I/O	Two-way data bus with the S-RAM
100	VDDI	—	Power supply terminal (+2.5V)
101	VSS	—	Ground terminal
102 to 105	D5 to D2	I/O	Two-way data bus with the S-RAM
106	VDDE	—	Power supply terminal (+3.3V)
107, 108	D1, D0	I/O	Two-way data bus with the S-RAM
109, 110	A2, A1	O	Address signal output to the S-RAM
111	VSS	—	Ground terminal
112	A0	O	Address signal output to the S-RAM
113	PM	I	PLL initialize signal input from the system controller
114, 115	SDI3, SDI4	I	Audio serial data input terminal
116	SYNC	I	Sync/non-sync setting terminal “L”: sync, “H”: non-sync (fixed at “H” in this set)
117	TST2	I	Not used
118	GP11	I	(not used)
119	TST3	I	(not used)
120	VDDI	—	Power supply terminal (+2.5V)

MAIN BOARD IC509 M30622MGP-A14FPUO (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	DAMP SCDT/ DIAT SDATA	O	Digital amp (IC108 to 110) data output
2	DAMP SHIFT/ DIAT SCLK	O	Digital amp (IC108 to 110) data output
3	XSCEN	O	Voltage control for amp (not used)
4	SIRCS_IN	I	Sircs input
5	DSP DIN/DIR DIN	O	DSP /DIR data out
6	DSP DOUT	I	DSP data in
7	DSP CLK/DIR CLK	O	DSP/DIR clock
8	BYTE	—	Ground terminal
9	CNVSS	I	Ground terminal
10	EN A	I	Volume signal input from ENCODER (A) (not used)
11	EN B	I	Volume signal input from ENCODER (B) (not used)
12	RESET	I	System reset signal input
13	XOUT	O	Crystal output for main cock
14	VSS	—	Ground terminal
15	XIN	I	Crystal input for main clock
16	VCC	—	Power supply (+3.3V)
17	NMI	I	Not used
18	DIR ZERO	I	DIR zero in
19	DIR_CSFLAG	I	DIR csflag in
20	AC_CUT	I	Detect AC-CUT (primary power off)
21	XRST	O	XRST signal output (not used)
22	V-CONTROL	O	Voltage control output (not used)
23	DIAT CSOD	I	DIAT CSOB signal output (not used)
24	FL_CLK/LED_CLK	O	FL driver (IC803) / LED driver (IC802) clock
25	MAMUTE	I	MAMUTE Signal input from DVD RF (IC102)
26	LED LAT	O	LED driver latch
27	FL_D_OUT/LED_DATA	O	FL driver (IC803) / LED Driver (IC802) data out
28	FL_CS/STB	O	FL driver (IC803) chip select
29	12C CLK	I	12C clock input (not used)
30	12C DATA	I	12C data input (not used)
31	DVD SID/TXDI	O	SID data output to DVD RF (IC102)
32	DVD SOD/RXDI	I	SOD data input from DVD RF (IC102)
33	DVD SCO/CLK1	I	Clock signal input from DVD RF (IC102)
34	DVD XIFBUSY/RTS1	O	IFBUSY signal output to DVD RF (IC102)
35	(NO USE)	—	Not used
36	(NO USE)	—	Not used
37	(NO USE)	—	Not used
38	SEL1FS	O	DIR_SELECT/Flash Write RTS1
39	DVD XIFCS	O	DVD RF (IC102) chip select signal
40	P CONT1	O	IC REG control signal
41	EMP/FL RESET	O	FL RESET signal to FL driver (IC803)
42	SEN	O	OCSW signal output
43	MTK XRST	O	DVD reset signal
44	P CONT2	O	IC REG control signal
45	DEVICE	O	Not used
46	CE/STBY LED	O	Flash Write CE (not used)

Pin No.	Pin Name	I/O	Description
47	DRIVE_RST(EN)	O	Driver signal reset
48	DRIVE_OCP(DIAG)	I	Digital amp (power driver) diag
49	OVERFLOW1	I	Over flow status1 of digital amp (IC110)
50	OVERFLOW2	I	Over flow status2 of digital amp (IC108 to 110)
51	DAMP LATCH1	O	Digital amp (IC108) chip select1 signal output
52	DAMP LATCH2	O	Digital amp (IC109) chip select2 signal output
53	DAMP LATCH3	O	Digital amp (IC110) chip select3 signal output
54	DAMP INIT	O	Digital amp (IC108 to 110) reset signal output
55	DAMP SOFT MUTE	O	Digital amp (IC108 to 110) soft muting output
56	HP SW	I	Switch headphone is insert
57	HP MUTE	O	Control of muting headphone signal
58	DSP_ACK	I	DSP acknowledge
59	DSP_GP9	I	DSP GP9 in
60	DSP_XRST	O	DSP reset
61	DSP_HCE	O	DSP chip enable
62	VCC	—	Power supply (+3.3V)
63	DSP_BST	O	DSP bootstrap (for DSP INIT)
64	VSS	—	Ground terminal
65	DSP_PM	O	DSP pll initial
66	DIR RST	O	DIR reset out
67	DIR HCE	O	DIR chip enable signal output
68	DIR RERR	I	DIR error input
69	DIR XSTATE	I	DIR change clock status
70	DIR HDOUT	I	DIR Data input
71	DSP_SKIP	O	DSP GP12
72	AD RST	O	ADC reset
73	MODEO	—	Not used
74	KEY INT	I	Wakeup from ECO mode by key input
75	RDS-CLK/MIC-CLK	O	Not used
76	RDS-DATA/MIC-DATA	O	Not used
77	PLL-CLK	O	Tuner clock
78	PLL-DO	O	Tuner data out (uCOM→pack)
79	PLL-CE	O	Tuner chip enable
80	PLL-DI	I	Tuner data in (pack→uCOM)
81	AV SELECT 0	O	Audio/Video select0
82	AV SELECT 1	O	Audio/Video select1
83	AV SELECT 2	O	Audio/Video select2
84	AV SELECT 3	O	Audio/Video select3
85	TUNED	I	Tuner pack tuned in
86	IO_CE	O	I/O expander chip enable / control of loading cd tray (open action)
87	IO_RESET	O	I/O expander reset / control of loading cd tray (close action)
88	IO_DI	I	I/O expander data in / SW2 of CDM
89	IO_DO	O	I/O expander data out / SW3 of CDM
90	IO_CLK	O	I/O expander clock
91	IPOD/MIC SW	I	Not used
92	DESTINATION	I	Destination select
93	MODEL	I	Model select (not used)
94	KEY2	I	Key input 2
95	KEY1	I	Key input 1

Pin No.	Pin Name	I/O	Description
96	VSS	—	Ground
97	KEY0	I	Key input 0
98	VREF	I	Reference Voltage (+3.3V)
99	VCC	I	Power supply (+3.3V)
100	M-ST/WMUTE	O	WMUTE signal output (not used)

DMB10 BOARD IC102 CXD9804R
(CD/DVD RF AMP, FOCUS/TRACKING ERR AMP, DVD SYSTEM PROCESSOR, DIGITAL SERVO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	AGND	—	Terminal Ground
2	DVDA	I	AC coupled input path A
3	DVDB	I	AC coupled input path B
4	DVDC	I	AC coupled input path C
5	DVDD	I	AC coupled input path D
6	DVDRFIP	I	AC coupled DVD RF signal input RFIP
7	DVDRFIN	I	AC coupled DVD RF signal input RFIN (not used)
8	NA	I	DC coupled main-beam RF signal input A
9	NB	I	DC coupled main-beam RF signal input B
10	MC	I	DC coupled main-beam RF signal input C
11	MD	I	DC coupled main-beam RF signal input D
12	SA	I	DC coupled sub-beam RF signal input A (not used)
13	SB	I	DC coupled sub-beam RF signal input B (not used)
14	SC	I	DC coupled sub-beam RF signal input C (not used)
15	SD	I	DC coupled sub-beam RF signal input D (not used)
16	CDFON	I	CD focusing error negative input (not used)
17	CDFOP	I	CD focusing error positive input (not used)
18	TNI	I	3 beam satellite PD signal negative input
19	TPI	I	3 beam satellite PD signal positive input
20	MDI1	I	Laser power PD monitor input
21	MDI2	I	Laser power PD monitor input
22	LDO2	O	Laser drive output
23	LDO1	O	Laser drive output
24	SVDD3	—	Power Supply (+3.3V)
25	CSO	O	Central servo, Positive main beam summing output (not used)
26	RFLVL	O	RFRP low pass, or Positive main beam summing output (not used)
27	SGND	—	Terminal Ground
28	V2REFO	O	Reference voltage 2.8V
29	V2O	O	Reference voltage 2.0V
30	VREFO	O	Reference voltage 1.4V
31	FEO	O	Focus error monitor output (not used)
32	TEO	O	Tracking error monitor output (not used)
33	TEZISLY	O	TE Slicing Level (not used)
34	OPOUT	O	Op amp output (not used)
35	OPINN	I	Op amp negative input (not used)
36	OPINP	I	Op amp positive input (not used)
37	DMO	O	Disk motor control output.PWM output
38	FMO	O	Feed motor control.PWM output
39	TROPENPWM	O	Tray PWM output/Tray open output.
40	IOPMON	I	General PWM input
41	TRO	O	Tracking servo output
42	FOO	O	Focus servo output
43	USBVSS	—	Terminal Ground
44	USBP	I	USB port DPLUS analog pin (not used)
45	USBM	I	USB port DMINUS analog pin (not used)
46	USBVDD3	—	Power Supply (+3.3V)
47	SPFGG	I	Moter Hall sensor input

Pin No.	Pin Name	I/O	Description
48	AN0	I	Not Used
49	AN1	I	Not Used
50	AN2	I	Not Used
51	MAMUTE	O	MAMUTE signal output to System Controller (IC509)
52	DVDD18	—	Power Supply (+1.8V)
53 to 58	IOA 2 to 7	O	Address bus 2 to 7 output to PROM (IC101)
59	HIGHA0	O	Address bus 8 output to PROM (IC101)
60, 61	IOA18, 19	O	Address bus 18, 19 output to PROM (IC101)
62	DVSS	—	Terminal Ground
63	APLLCAP	I	APLL External Capacitance connection
64	APLLVSS	—	Terminal Ground
65	DVDD3	—	Power Supply (+3.3V)
66	I OWR	O	WE signal output to PROM (IC101)
67	A16	O	Address bus 16 output to PROM (IC101)
68 to 72	HIGHA 7 to 3	O	Address bus 15 to 11 output to PROM (IC101)
73	DVDD3	—	Power Supply (+3.3V)
74, 75	HIGHA 2, 1	O	Address bus 10, 9 output to PROM (IC101)
76	IOA20	O	Address bus 20 output to PROM (IC101)
77	IOCS	O	CE signal output to PROM (IC101)
78	IOA1	O	Address bus 1 output to PROM (IC101)
79	IOOE	O	OE signal output to PROM (IC101)
80	DVDD3	—	Power Supply (+3.3V)
81 to 84	AD 0 to 3	I	Data bus 0 to 3 input from PROM (IC101)
85	DVSS	—	Terminal Ground
86 to 88	AD 4 to 6	I	Data bus 4 to 6 input from PROM (IC101)
89	IOA21	O	Address bus 21 output to PROM (IC101)
90	ALE	O	Address latch enable (not used)
91	AD7	I	Data bus 7 input from PROM (IC101)
92	A17	O	Address bus 17 output to PROM (IC101)
93	IOA0	O	Address bus 0 output to PROM (IC101)
94	DVSS	—	Terminal Ground
95	UWA	I	System Controller write strobe (not used)
96	URB	I	System Controller read strobe (not used)
97	DVDD18	—	Power Supply (+1.8V)
98	IFSDO	O	DVD SOD signal output to System Controller (IC509)
99	IFCK	O	DVD SCO signal output to System Controller (IC509)
100	XIFCS	I	DVD XIFCS signal input from System Controller (IC509)
101	IFSDI	I	VIFBUSY signal input from System Controller (IC509)
102	SCL	O	SCL signal output to EEPROM (IC103)
103	SDA	O	SDA signal output to EEPROM (IC103)
104	TRG-SW	O	RS232 RXD signal output
105	IF-BSY	I	RS232 TXD signal input from System Controller (IC509)
106	RXD	I	RD232 RXD clock
107	TXD	I	RD232 TXD data
108	DVDD3	—	Power Supply (+3.3V)
109	IEC	I	ICE mode enable (not used)
110	PRST	I	MTRST signal input from System Controller (IC509)
111	IR	I	IR control signal input (not used)
112	INT0	I	External interrupt0 (not used)

Pin No.	Pin Name	I/O	Description
113	DQMO	O	DQM0 signal output to SD-RAM (IC104)
114	DQS0	I	DQM signal input
115	RD7	I	Data bus 7 from SD-RAM (IC104)
116	DVSS	—	Terminal Ground
117, 118	RD 6, 5	I	Data bus 6, 5 from SD-RAM (IC104)
119	DVSS	—	Terminal Ground
120, 121	RD 4, 3	I	Data bus 4, 3 from SD-RAM (IC104)
122	DVDD18	—	Power Supply (+1.8V)
123 to 125	RD 2 to 0	I	Data bus 2 to 0 from SD-RAM (IC104)
126	RD15	I	Data bus 15 from SD-RAM (IC104)
127	DVDD3	—	Power Supply (+3.3V)
128	RD 14	I	Data bus 14 from SD-RAM (IC104)
129 to 133	RD 13 to 9	I	Data bus 13 to 9 from SD-RAM (IC104)
134	DVSS	—	Terminal Ground
135	RD8	I	Data bus 8 from SD-RAM (IC104)
136	GPI0	—	Not Used
137	DQM1	O	DQM1 signal output to SD-RAM (IC104)
138	REW	O	WE signal output to SD-RAM (IC104)
139	CAS	O	CAS signal output to SD-RAM (IC104)
140	RAS	O	RAS signal output to SD-RAM (IC104)
141	DVDD3	—	Power Supply (+3.3V)
142	RCS	O	RCS signal output to SD-RAM (IC206)
143	BAO	O	BAO signal output to SD-RAM (IC206)
144	DVSS	—	Terminal Ground
145	BA1	O	BA1 signal output to SD-RAM (IC104)
146	RA10	O	Address bus 10 output to SD-RAM (IC104)
147	RA0	O	Address bus 0 output to SD-RAM (IC104)
148	DVSS	—	Terminal Ground
149 to 151	RA 1 to 3	O	Address bus 1 to 3 output to SD-RAM (IC104)
152	DVDD18	—	Power Supply (+1.8V)
153	RVREF	I	Reference voltage (not used)
154	RCLKB	I	Dram clock (not used)
155	DVDD3	—	Power Supply (+3.3V)
156	RCLK	O	CLK signal output to SD-RAM (IC104)
157	CLE	O	CLE signal output to SD-RAM (IC104)
158 to 160	RA 11, 9, 8	O	Address bus 11, 9, 8 output to SD-RAM (IC104)
161	DVSS	—	Terminal Ground
162	RA7	O	Address bus 7 output to SD-RAM (IC104)
163	DVSS	—	Terminal Ground
164 to 166	RA 6 to 4	O	Address bus 6 to 4 output to SD-RAM (IC104)
167	DVDD3	—	Power Supply (+3.3V)
168	DISC/X	—	Not Used
169	RGB	—	Not Used
170	XSMRST	O	Reset signal output
171	WODE	O	SI signal output to VIDEO AMP (IC201)
172	NT	—	Not Used
173	DVDD18	—	Power Supply (+1.8V)
174	EUR	—	Not Used
175	DVSS	—	Terminal Ground

Pin No.	Pin Name	I/O	Description
176	LIMSW	O	LIMSW signal output to Optical pick-up
177	OCSW	I	SEN signal input from System Controller (IC509)
178	VCLK	O	System clock output
179	CKSW	—	Not Used
180	IO3	O	Reset signal output to VIDEO DAC
181	TSDM	O	TSDM signal output to Motor driver (IC201)
182	DVDD3	—	Power Supply (+3.3V)
183	MUTE	O	MUTE signal output to Motor driver (IC201)
184	MUTE123	O	MUTE signal output to Moter driver (IC201)
185	REW	—	Not Used
186	FWD	—	Not Used
187	MSW	O	Volume control signal output to Optical pick-up
188	DSEL	O	Select signal output (not used)
189	DAVCC	—	Power Supply (+3.3V)
190	VREF	I	Bandgap reference voltage (not used)
191	FS	O	Full scale adjustment (pull down)
192	YUV0	O	LSB data output
193	DVSS	—	Terminal Ground
194	YUV1	O	Y signal output to VIDEO AMP (IC201)
195	DAVDD	—	Power Supply (+3.3V)
196	YUV2	O	CHROMA signal output to VIDEO AMP (IC201)
197	DVSS	—	Terminal Ground
198	YUV3	O	VIDEO signal output to VIDEO AMP (IC201)
199	DAVDD	—	Power Supply (+3.3V)
200	YUV4	O	G signal output to VIDEO AMP (IC201)
201	DVSS	—	Terminal Ground
202	YUV5	O	B signal output to VIDEO AMP (IC201)
203	YUV6	O	R signal output to VIDEO AMP (IC201)
204	DVDD3	—	Power Supply (+3.3V)
205	MIC/VSYNC	O	Active low horizontal sync output
206	VOICE/YUV7	O	MSB data output
207	KRMOB/HSYNC	O	Active low horizontal sync output
208	SMSCK	O	SMS clock output
209	SPDATA/SMSDI	I	Audio data of SPDIF input
210	SMSDO	O	SMS DATA output
211	XSMCS	O	SMS CS output
212	DVDD3	—	Power Supply (+3.3V)
213	ALRCK	O	Audio L/R channel clock
214	ABCK	O	Audio bit clock
215	ACLK	O	Audio DAC master clock
216	DVSS	—	Terminal Ground
217	ASDATA0	O	Audio serial data
218	ASDATA1	O	Audio serial data
219	ASDATA2	O	Audio serial data
220	XRST	O	Reset signal output to VIDEO DAC
221	DVDD18	—	Power Supply (+1.8V)
222	ASDATA4	O	Audio serial data
223	DVSS	—	Terminal Ground
224	DWIDE	—	Not Used

Pin No.	Pin Name	I/O	Description
225	SDPIF	O	SPDIF output
226	RFGND18	—	Terminal Ground
227	RFVDD18	—	Power Supply (+1.8V)
228	ZTALO	O	Oscillator output signal
229	ZTALI	I	Oscillator input signal
230	JITFO	O	RF jitter meter output
231	JITFN	I	Negative input of operation amplifier for RF jigger meter
232	PLLVSS	—	Terminal Ground
233	IDAC	—	Not Used
234	PLLVDD3	—	Power Supply (+3.3V)
235	LPFON	O	Negative output of loop filter amplifier
236	LPFIP	I	Positive input of loop filter amplifier
237	LPFIN	I	Negative input of loop filter amplifier
238	LPFOP	O	Positive output of loop filter amplifier
239	VDD3	I	Power Supply (+3.3V)
240	VCM	I	SACD-Common mode Reference
241	VSS	—	Terminal Ground
242	VREEP	I	SACD-TOP Reference
243	VREEN	I	SACD-Bottom Reference
244	RFVDD3	—	Power Supply (+3.3V)
245	RFRPDC	I	RFRP signal input
246	RFRPAC	I	RFRP signal input
247	HRFZC	I	High frequency RF ripple zero crossing
248	CRTPLP	O	Defect level filter capacitor connecting
249	RFGND	—	Terminal Ground
250	CEQP	O	EQ offset loop capacitance (not used)
251	CEQN	O	EQ offset loop capacitance (not used)
252	OSP	O	RF offset cancellation capacitor connecting
253	OSN	I	RF offset cancellation capacitor connecting
254	RFGC	O	RF offset loop capacitor connecting for DVD-ROM
255	IREF	I	Current reference input
256	AVDD3	—	Power Supply (+3.3V)

MIB01 BOARD IC503 CXD9837R (PROGRESSIVE SCAN CONVERTER)

Pin No.	Pin Name	I/O	Desciption
1	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
2	CLKI	I	System clock input (27MHz)
3	TEST7	I	Test purpose only (must be connected to ground)
4	PLL_EN	I	PLL eneble
5 to 14	PI0 to PI9	I	ITU-R BT.656/601 input
15	NHSI	I	Active low horizontal sync input
16	NVSI	I	Active low vertical sync input
17	OVSS	—	Digital ground for Pad Ring
18	THMD	I	Through mode setting terminal.
19	CVSS	—	Digital ground for core
20	NVSO	O	Active low vertical sync output
21	NHSO	O	Active low horizontal sync output
22 to 25	PO9 to PO6	O	ITU-R BT.656/601 output
26	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
27	CVSS	—	Digital ground for core
28 to 33	PO5 to PO0	O	ITU-R BT.656/601 output
34	TEST0	I	Test purpose only (must be connected to ground)
35	OVSS	—	Digital ground for Pad Ring
36	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
37	CVDD	—	Positive supply voltage (+2.5V) for Pad Ring
38	TEST1	I	Test purpose only (must be connected to ground)
39	TEST2	I	Test purpose only (must be connected to ground)
40	CLKO	O	Clock output (27MHz)
41 to 45	YO9 to YO5	O	ANSI/SMPTE 293M Y output
46	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
47	OVSS	—	Digital ground for Pad Ring
48 to 52	YO4 to YO0	O	ANSI/SMPTE 293M Y output
53	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
54	CVSS	—	Digital ground for core
55	OVSS	—	Digital ground for Pad Ring
56 to 60	CO0 to CO4	O	ANSI/SMPTE 293M Cb/Cr output
61	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
62	OVSS	—	Digital ground for Pad Ring
63 to 67	CO5 to CO9	O	ANSI/SMPTE 293M Cb/Cr output
68	FILM	O	Film sequence detection flag output (not used)
69	RFFI	I	MPEG flag (Repeat First Field) input port
70	OVSS	—	Digital ground for Pad Ring
71	CVDD	—	Positive supply voltage (+2.5V) for Pad Ring
72	IVDD	—	Positive supply voltage (+3.3V) for Pad Ring
73	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
74 to 77	MD19 to MD16	I/O	Data input/output port for SDRAM (not used)
78	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
79	OVSS	—	Digital ground for Pad Ring
80	MA3	O	Address output port for SDRAM
81	MA4	O	Address output port for SDRAM
82	MA2	O	Address output port for SDRAM
83	MA5	O	Address output port for SDRAM
84	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring

Pin No.	Pin Name	I/O	Desciption
85	OVSS	—	Digital ground for Pad Ring
86	MA1	O	Address output port for SDRAM
87	MA6	O	Address output port for SDRAM
88	MA0	O	Address output port for SDRAM
89	MA7	O	Address output port for SDRAM
90	OVSS	—	Digital ground for Pad Ring
91	IVSS	—	Digital ground for Pad Ring
92	CVSS	—	Digital ground for core
93	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
94	MA10	O	Address output port for SDRAM
95	MA8	O	Address output port for SDRAM
96	MA11	O	Address output port for SDRAM
97	MA9	O	Address output port for SDRAM
98	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
99	OVSS	—	Digital ground for Pad Ring
100	RAS	O	Row Address Strobe command output port for SDRAM
101	DQM	O	DQM output port for SDRAM
102	CAS	O	Column Address Strobe command output port for SDRAM
103	MCLK	O	Clock output port for SDRAM (54MHz)
104	WE	O	Write Enable output port for SDRAM
105	TEST3	I	Test purpose only (must be connected to ground)
106	TEST4	I	Test purpose only (must be connected to ground)
107	OVSS	—	Digital ground for Pad Ring
108	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
109	CVDD	—	Positive supply voltage (+2.5V) for core
110	MD7	I/O	Data input/output port for SDRAM
111	MD8	I/O	Data input/output port for SDRAM
112	MD6	I/O	Data input/output port for SDRAM
113	MD9	I/O	Data input/output port for SDRAM
114	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
115	OVSS	—	Digital ground for Pad Ring
116	MD5	I/O	Data input/output port for SDRAM
117	MD10	I/O	Data input/output port for SDRAM
118	MD4	I/O	Data input/output port for SDRAM
119	MD11	I/O	Data input/output port for SDRAM
120	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
121	OVSS	—	Digital ground for Pad Ring
122	MD3	I/O	Data input/output port for SDRAM
123	MD12	I/O	Data input/output port for SDRAM
124	MD2	I/O	Data input/output port for SDRAM
125	MD13	I/O	Data input/output port for SDRAM
126	OVSS	—	Digital ground for Pad Ring
127	CVSS	—	Digital ground for core
128	OVDD	—	Positive supply voltage (+3.3V) for Pad Ring
129	MD1	I/O	Data input/output port for SDRAM
130	MD14	I/O	Data input/output port for SDRAM
131	MD0	I/O	Data input/output port for SDRAM
132	MD15	I/O	Data input/output port for SDRAM
133	SLV	I	Slave address selection input for I2C

Pin No.	Pin Name	I/O	Desciption
134	RFFO	O	MPEG flag output port (not used)
135	SDA	I/O	Data input/output of MPU interface
136	SCL	I	Clock inputt of MPU interface
137	SRN	I	System reset input (negative)
138	OVSS	—	Digital ground for Pad Ring
139	CVDD	—	Positive supply voltage (+2.5V) for core
140	PLL_VDD	—	Positive supply voltage (+2.5V) for PLL
141	VPDX	I	Must be connected to ground
142	TEST6	I	Test purpose only (must be connected to ground)
143	PLL_GND	—	Ground for PLL
144	IVDD	—	Positive supply voltage (+3.3V) for Pad Ring

MIB01 BOARD IC507 CXD9836R (PIXEL RESOLUTION CONVERTER)

Pin No.	Pin Name	I/O	Desciption
1	VSS	—	Digital ground
2	XTCK1	I	Test purpose only (must be connected to ground)
3	XSM	I	Test purpose only (must be connected to VDDE)
4	XTST	I	Test purpose only (must be connected to VDDE)
5	MST	I	Test purpose only (must be connected to ground)
6	SMCK	I	Test purpose only (must be connected to VDDE)
7 to 9	DC9 to DC7	I	Chroma data input
10	VDDI	—	Digital positive supply voltage (+2.5V) for Pad Ring
11	VSS	—	Digital ground
12 to 15	DC6 to DC3	I	Chroma data input
16	VDDE	—	Digital positive supply voltage (+3.3V) for Pad Ring
17 to 19	DC2 to DC0	I	Chroma data input
20	DY0	I	Luma data input
21	VSS	—	Digital ground
22 to 30	DY1 to DY9	I	Luma data input
31	VSS	—	Digital ground
32 to 39	DI0 to DI7	I	Through data input
40	VDDI	—	Digital positive supply voltage (+2.5V) for core
41	VSS	—	Digital ground
42,43	DI8,DI9	I	Through data input
44	DH	I	Horizontal sync input
45	DV	I	Vertical sync input
46	VDDE	—	Digital positive supply voltage (+3.3V) for Pad Ring
47	F1	I	Field flag control signal input
48	ALSB	I	Slave address selection input
49	SDA	I/O	Data input/output of IC interface
50	SCL	I	Clock inputt of IC interface
51	VSS	—	Digital ground
52	NRST	I	System reset input
53	TEST0	I	Test purpose only (must be connected to ground)
54	TEST1	I	Test purpose only (must be connected to ground)
55	TEST2	I	Test purpose only (must be connected to ground)
56	TEST3	I	Test purpose only (must be connected to ground)
57,58	QB0,QB1	O	B data output (not used)
59	OVDDE1	—	Digital positive supply voltage (+3.3V) for Pad Ring
60	VDDI	—	Digital positive supply voltage (+2.5V) for Pad Ring
61	VSS	—	Digital ground
62 to 69	QB2 to QB9	O	B data output
70	VDDI	—	Digital positive supply voltage (+2.5V) for core
71	VSS	—	Digital ground
72,73	QG0,QG1	O	G data output (not used)
74,75	QG2,QG3	O	G data output
76	VDDE	—	Digital positive supply voltage (+3.3V) for Pad Ring
77 to 80	QG4 to QG7	O	G data output
81	VSS	—	Digital ground
82, 83	QG8,QG9	O	G data output
84, 85	QR0,QR1	O	R data output (not used)
86 to 90	QR2 to QR6	O	R data output

Pin No.	Pin Name	I/O	Desciption
91	VSS	—	Digital ground
92	OVDDE2	—	Digital positive supply voltage (+3.3V) for Pad Ring
93 to 95	QR7 to QR9	O	R data output
96	QV	O	Vertical sync output
97	QH	O	Horizontal sync output
98	QDE	O	Data enable output
99	QCLK	O	Pixel clock output
100	VDDI	—	Digital positive supply voltage (+2.5V) for Pad Ring
101	VSS	—	Digital ground
102	EXCLK	I	Pixel clock input for external PLL mode.
103	OVDDE3	—	Digital positive supply voltage (+3.3V) for Pad Ring
104	PH1	O	Phase comparate signal-1 for external PLL (not used)
105	N.C	—	Not used
106	AVS1	—	Analog ground for PLL
107	AVD1	—	Digital positive supply voltage (+3.3V) for PLL
108	CPO	O	Charge pump output for internal PLL
109	N.C	—	Not used
110	VCI	I	VCO input for internal PLL
111	AVS2	—	Analog ground for PLL
112	AVD2	—	Digital positive supply voltage (+3.3V) for PLL
113	N.C	—	Not used
114	PH2	O	Phase comparate signal-2 for external PLL (not used)
115	PLLEN	I	PLL mode select signal input (internal mode or external mode)
116	OVDDE4	—	Digital positive supply voltage (+3.3V) for Pad Ring
117	DCLK	I	System clock input (27MHz)
118	OVSS1	—	Digital ground
119	DCLKP	I	DCLK polarity control signal input
120	VDDI	—	Digital positive supply voltage (+2.5V) for Pad Ring

SECTION 8
EXPLODED VIEWS

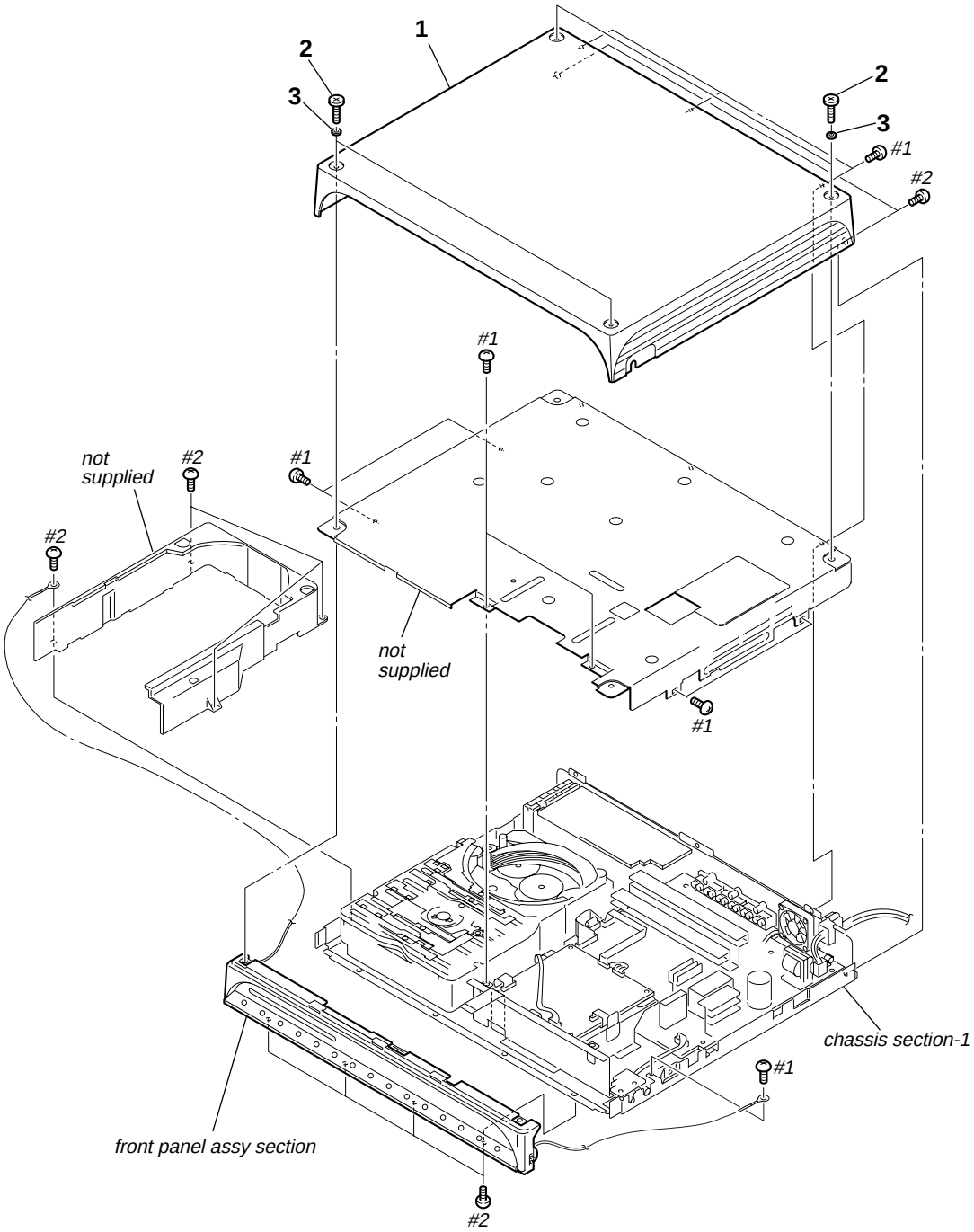
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
  CND : Canadian model.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

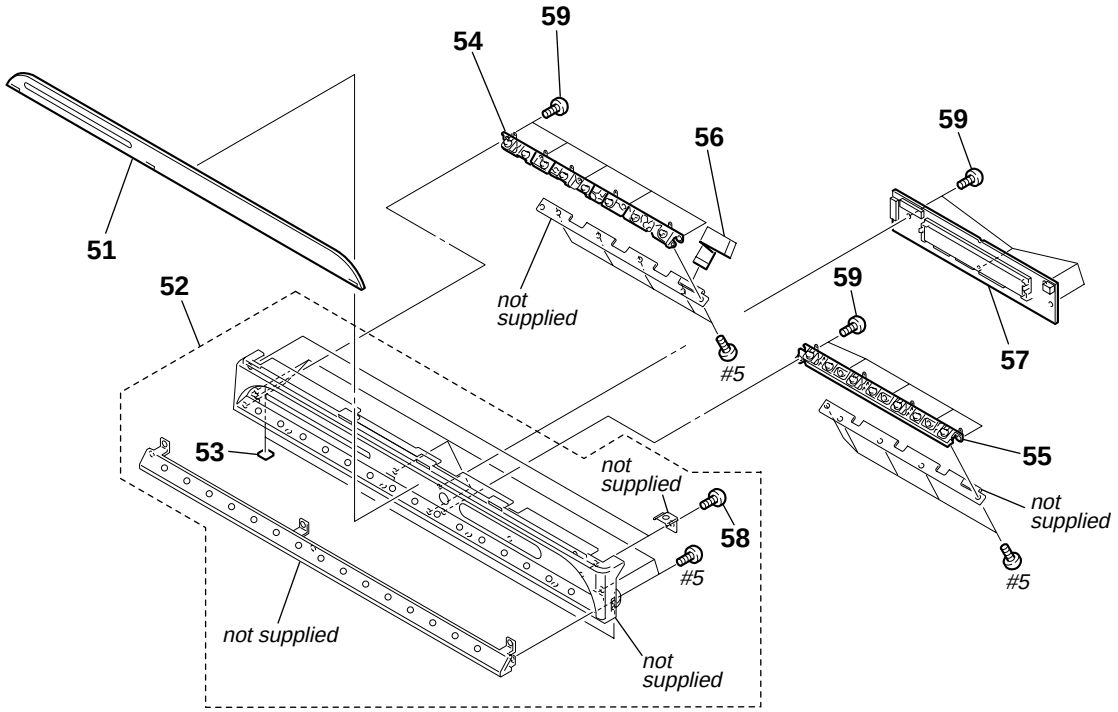
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

8-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark
1	X-2055-034-1	TOP PANEL SUB ASSY	
2	4-227-843-11	SCREW (TP), FLAT HEAD	
3	2-585-409-01	CAP (SCREW)	
#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

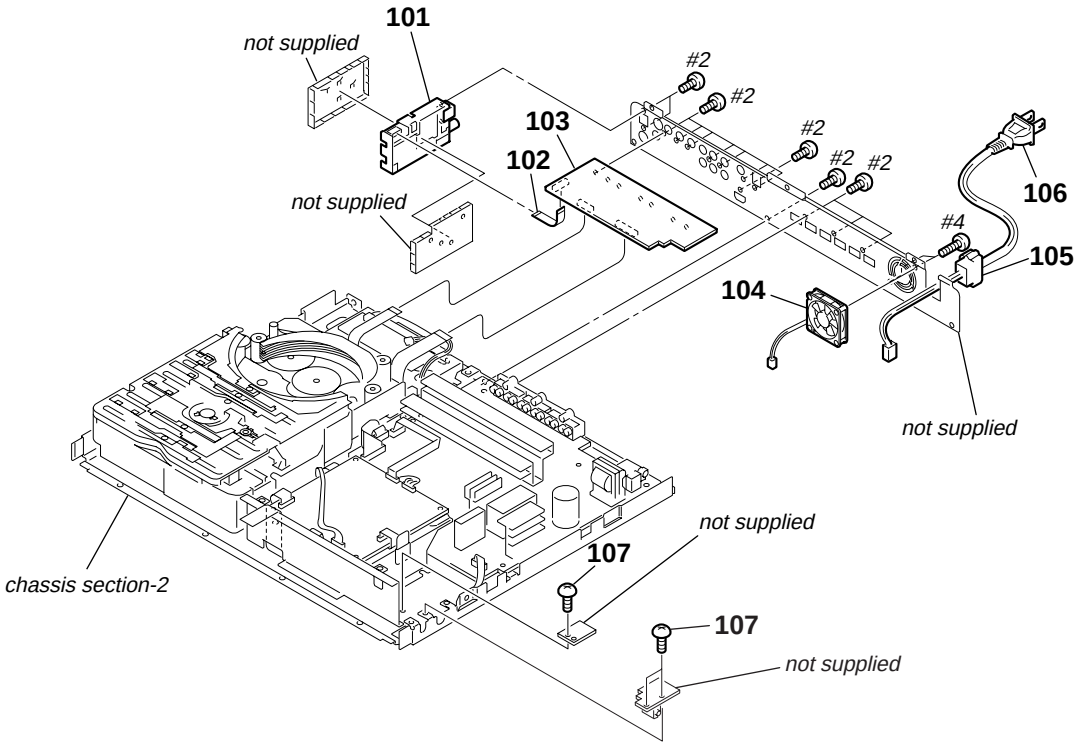
8-2. FRONT PANEL ASSY SECTION



Ref. No.	Part No.	Description	Remark
51	2-585-417-11	WINDOW (FL)	
52	X-2050-543-1	FRONT PANEL ASSY	
53	4-232-478-31	FOOT	
54	X-2050-545-1	DISC BUTTON SUB ASSY	
55	X-2050-544-1	PLAY BUTTON SUB ASSY	

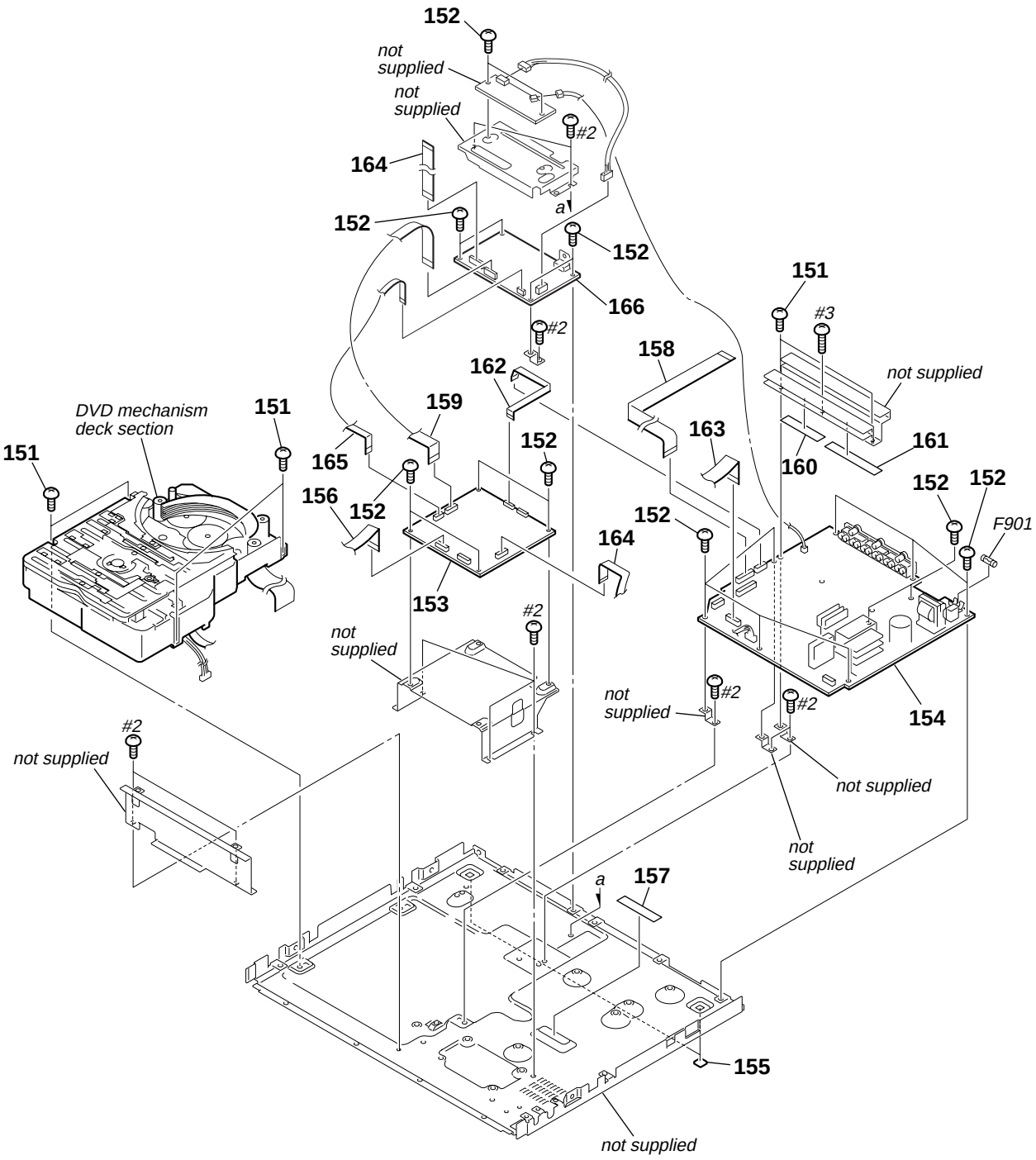
Ref. No.	Part No.	Description	Remark
56	1-828-336-11	WIRE (FLAT TYPE) (15 CORE)	
57	A-1104-753-A	FL BOARD, COMPLETE	
58	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
59	4-931-757-31	SCREW (DIA.2.6X8) (IT3B), TAPPING	
#5	7-685-133-19	SCREW (DIA. 2.6) (IT3B)	

8-3. CHASSIS SECTION-1



Ref. No.	Part No.	Description	Remark
101	A-1074-640-A	DTP-005//K(A)(UC)	
102	1-828-952-11	WIRE (FLAT TYPE) (9 CORE)	
103	A-1110-952-A	I/O BOARD, COMPLETE	
104	1-787-331-11	FAN, D.C.	
105	4-217-350-11	STOPPER, CORD	
⚠106	1-783-531-91	CORD, POWER	
107	3-077-331-21	+BV3 (3-CR)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#4	7-685-881-09	SCREW +BVTT 4X8 (S)	

8-4. CHASSIS SECTION-2

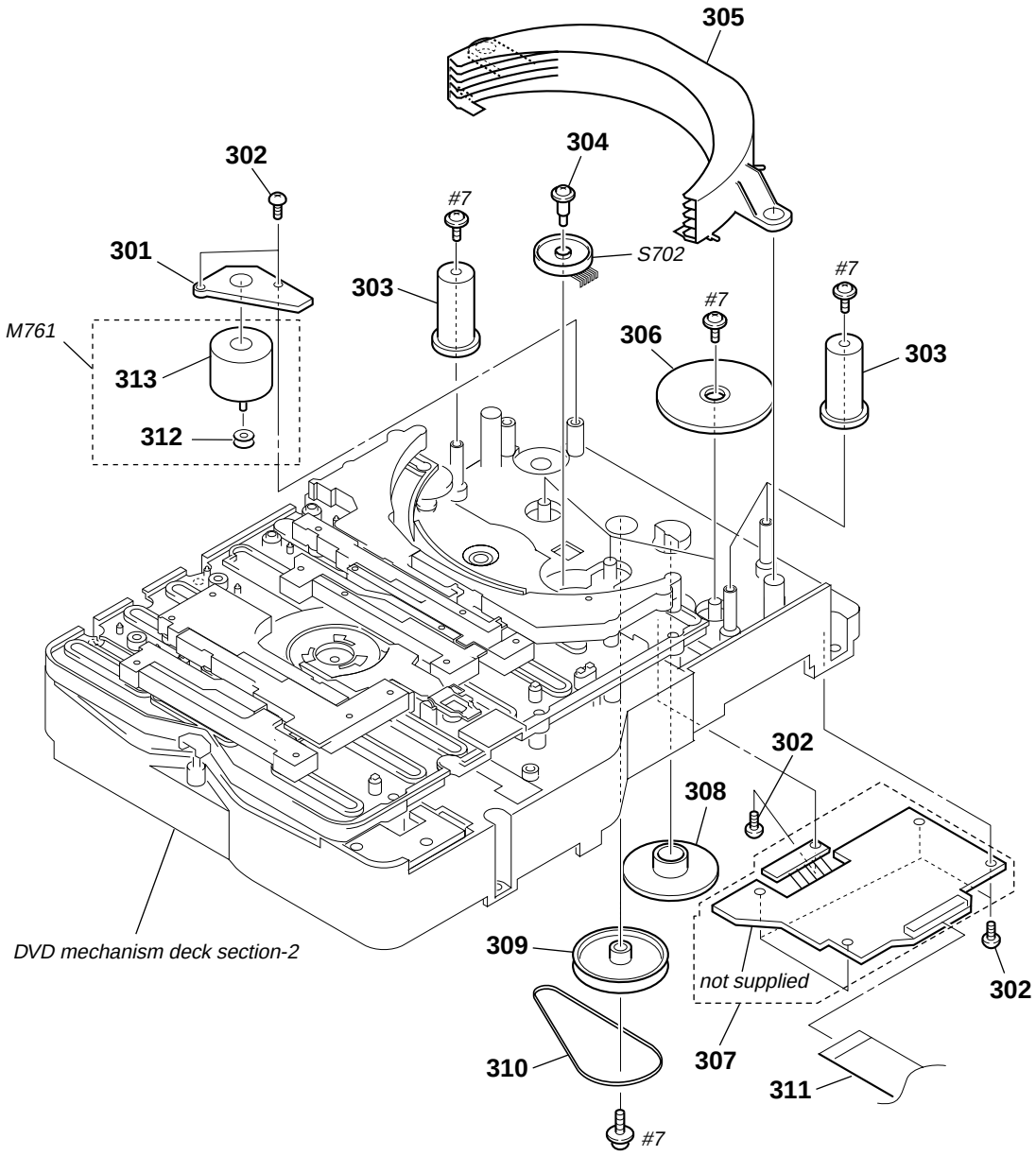


Ref. No.	Part No.	Description	Remark
151	3-077-331-01	+BV3 (3-CR)	
152	3-077-331-21	+BV3 (3-CR)	
☆ 153	A-1110-958-A	DMB10 BOARD, COMPLETE	
154	A-1110-946-A	MAIN BOARD, COMPLETE	
155	4-232-478-31	FOOT	
156	1-830-552-11	WIRE (FLAT TYPE) (24 CORE)	
157	4-254-954-01	SHEET (DMB), RADIATION	
158	1-828-382-11	WIRE (FLAT TYPE) (23 CORE)	
159	1-830-544-11	WIRE (FLAT TYPE) (28 CORE)	
160	4-254-947-01	SHEET (AMP), RADIATION	
161	4-254-947-11	SHEET (AMP), RADIATION	
162	1-830-576-11	WIRE (FLAT TYPE) (11CORE)	
163	1-828-361-11	WIRE (FLAT TYPE) (19 CORE)	
164	1-828-327-11	WIRE (FLAT TYPE) (13 CORE)	
165	1-828-194-11	WIRE (FLAT TYPE) (12 CORE)	
★ 166	A-1124-106-A	MIB01 BOARD, COMPLETE	
⚠F901	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (8A/125V)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#3	7-685-649-79	SCREW +BVTP 3X14 TYPE2 IT-3	

☆ New part of EEPROM (IC103) on the DMB10 board cannot be used. Therefore, if the mounted DMB10 board (A-1110-958-A) is replaced, exchange new EEPROM (IC103) with that used before the replacement.

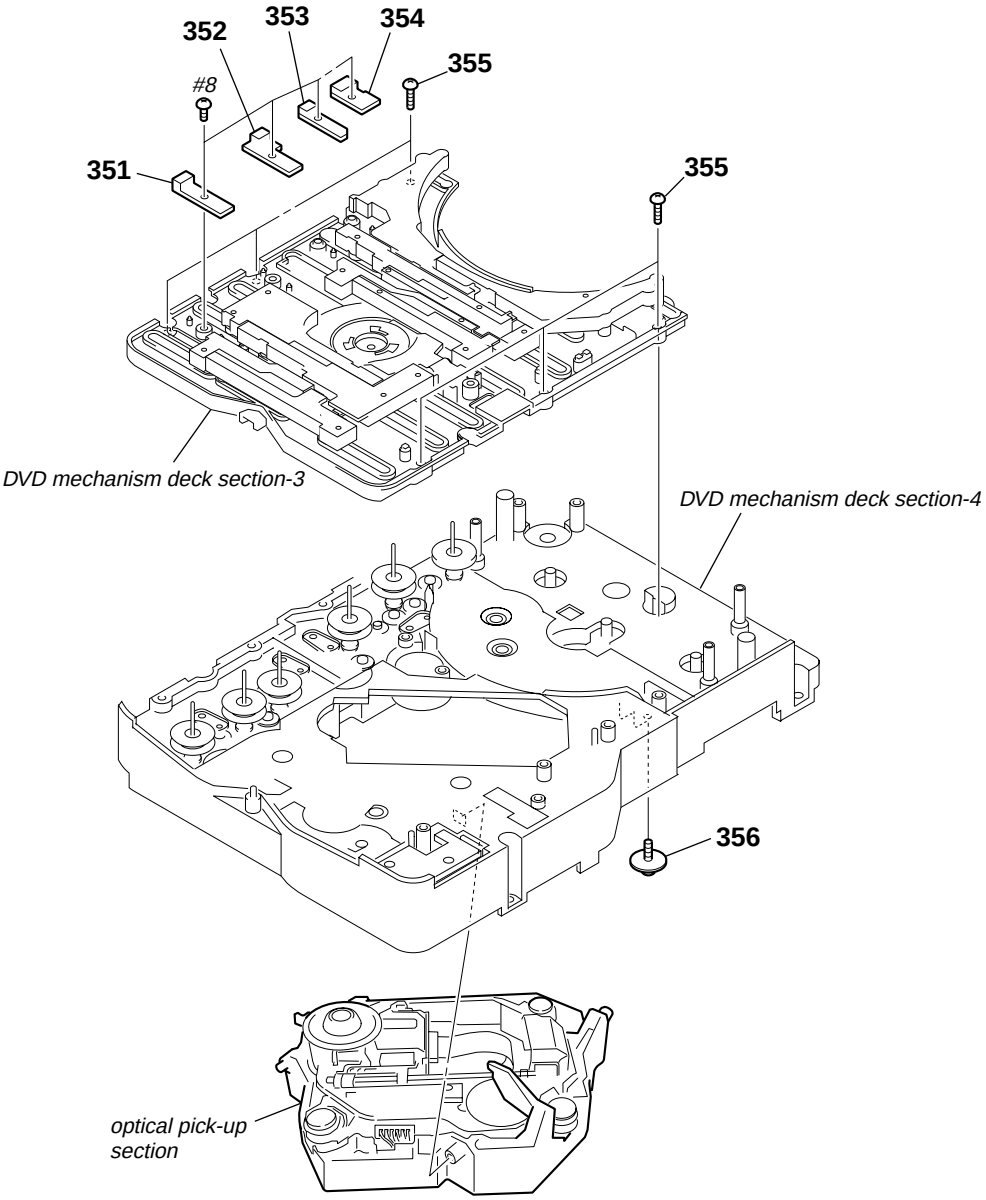
★ Please refer to " NOTE OF HANDLING THE MIB01 BOARD (A-1124-106-A) " on the service note (Page 5) for handling of this board.

8-5. DVD MECHANISM DECK SECTION-1 (CDM69EH-DVBU101)



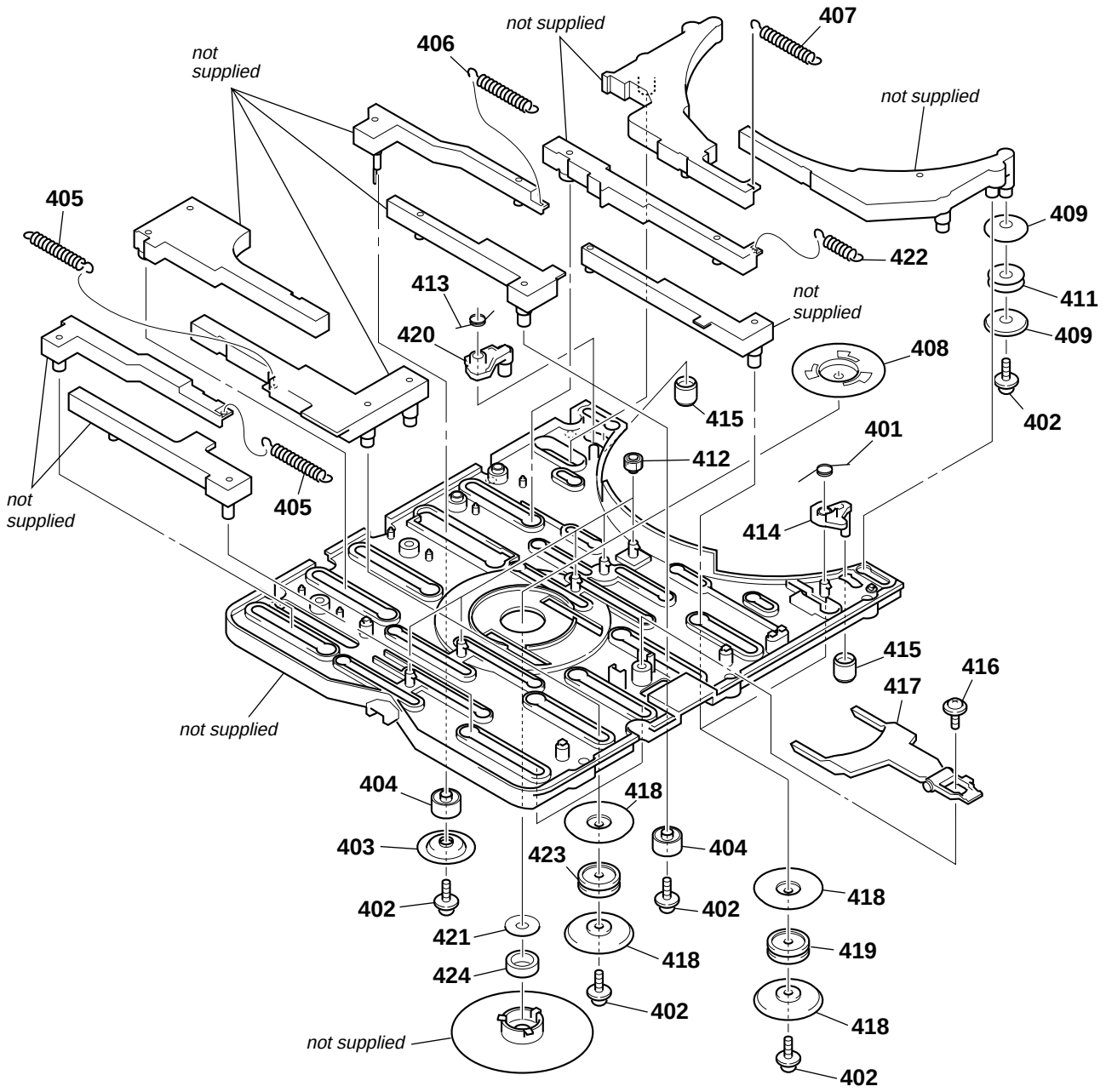
Ref. No.	Part No.	Description	Remark
301	1-686-725-13	STOCKER MOTOR BOARD	
302	3-087-053-01	+BVTP2.6 (3CR)	
303	4-239-690-01	CAM (STOCKER U/D)	
304	4-239-618-02	SCREW (+PWH, 2X6), STEP TAPPING	
305	4-239-676-01	STOCKER	
306	4-239-687-01	GEAR (STOCKER COMMUNICATION)	
307	A-4731-113-A	RELAY BOARD, COMPLETE (including ST ENCODER BOARD)	
308	4-239-689-01	GEAR (STOCKER DECELERATION)	
309	4-239-699-01	PULLEY	
310	4-211-237-01	BELT (MODE)	
311	1-828-399-11	WIRE (FLAT TYPE) (27 CORE)	
312	4-986-156-01	PULLEY, MOTOR	
313	1-763-967-11	MOTOR, DC	
M761	A-4735-953-A	MOTOR (STOCKER) ASSY (STOCKER)	
S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
#7	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

8-6. DVD MECHANISM DECK SECTION-2 (CDM69EH-DVBU101)



Ref. No.	Part No.	Description	Remark
351	1-686-727-13	SW (1) BOARD	
352	1-686-728-13	SW (2) BOARD	
353	1-686-729-13	SW (3) BOARD	
354	1-686-730-13	SW (4) BOARD	
355	3-087-053-01	+BVTP2.6 (3CR)	
356	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
#8	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	

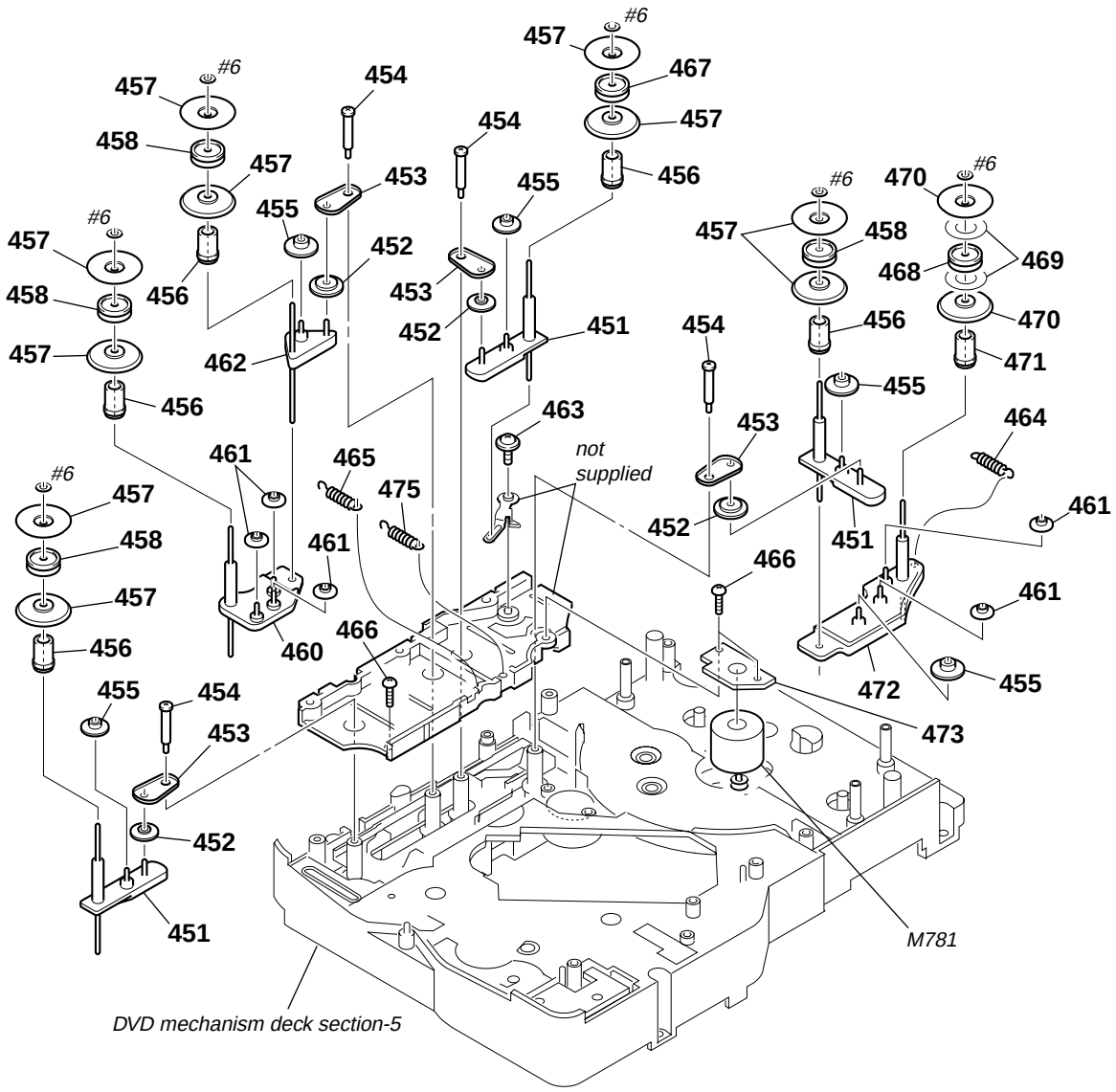
8-7. DVD MECHANISM DECK SECTION-3 (CDM69EH-DVBU101)



Ref. No.	Part No.	Description	Remark
401	4-240-040-01	SPRING (DISC STOPPER), TORSION	
402	4-992-069-01	SCREW (+PTPWH) (M2) (DIA. 7)	
403	4-239-648-01	PARASOL (ROLLER)	
404	4-239-646-01	ROLLER (ROLLER)	
405	4-239-641-01	SPRING (1.2), TENSION	
406	4-239-642-01	SPRING (3), TENSION COIL	
407	4-239-679-01	SPRING (5), TENSION COIL	
408	2-345-860-01	PULLEY (A (310)), CHUCKING	
409	4-239-649-01	PARASOL (STOCKER)	
411	4-244-035-01	ROLLER (STOCKER), RUBBER	
412	4-239-640-02	PINION (SLIDER)	
413	4-243-291-01	SPRING, TORSION	

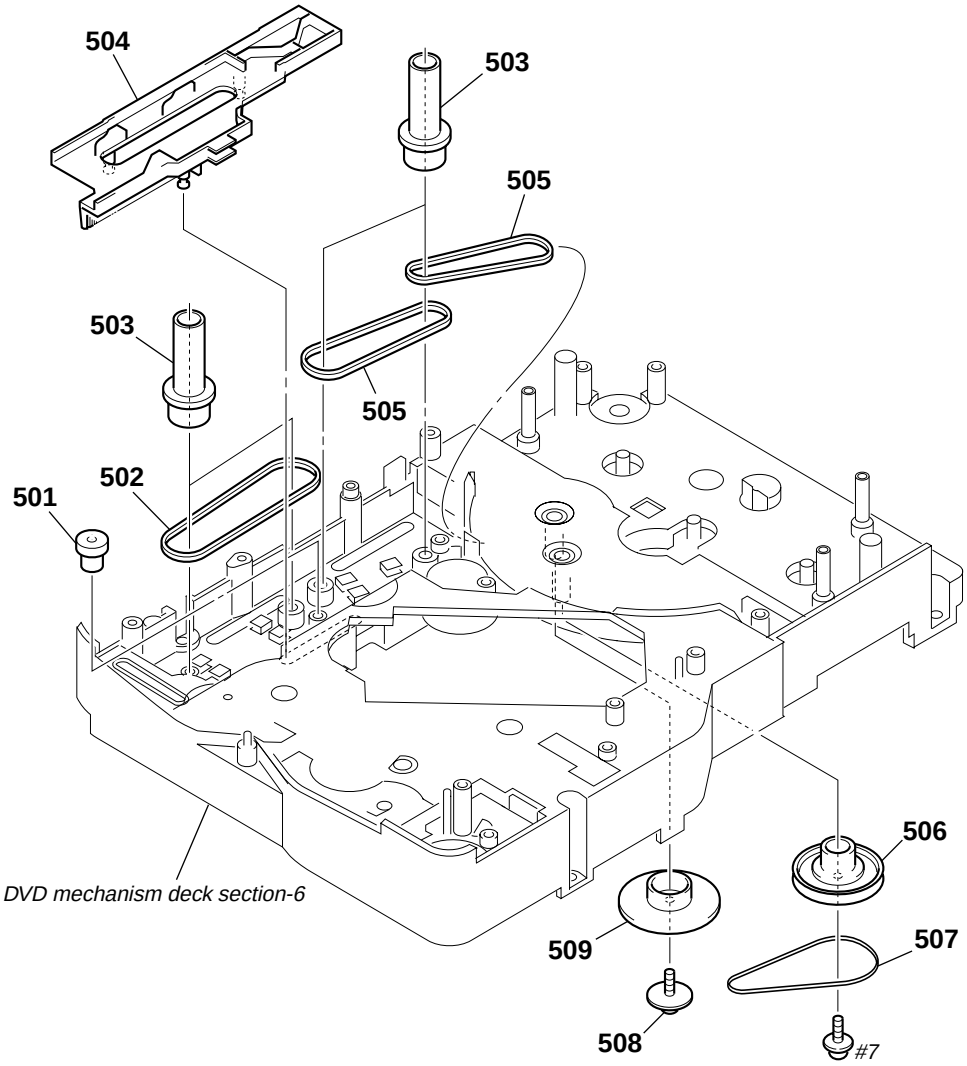
Ref. No.	Part No.	Description	Remark
414	4-240-039-01	LEVER (DISC STOPPER)	
415	4-239-702-01	ROLLER (DISC STOPPER)	
416	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
417	4-243-713-01	LEVER (LIFTER)	
418	4-239-647-01	PARASOL (MAIN)	
419	4-243-916-01	ROLLER (S), RUBBER	
420	4-241-599-01	LEVER (SUPPORT)	
421	4-243-703-02	YOKE (213)	
422	4-239-643-01	SPRING (4), TENSION COIL	
423	4-244-032-01	ROLLER, RUBBER	
424	1-471-244-11	MAGNET	

8-8. DVD MECHANISM DECK SECTION-4 (CDM69EH-DVBU101)



Ref. No.	Part No.	Description	Remark
451	X-4954-626-1	LEVER (ROLLER) ASSY	
452	4-239-666-01	GEAR	
453	4-239-668-01	LEVER (CENTER)	
454	4-239-652-02	SCREW (ROLLER), STEP	
455	4-239-669-01	GEAR (ROLLER COMMUNICATION)	
456	4-239-667-01	GEAR (ROLLER CENTER)	
457	4-239-647-01	PARASOL (MAIN)	
458	4-244-032-01	ROLLER, RUBBER	
460	X-4954-622-1	BASE (SLIDER 2) ASSY	
461	4-239-670-01	GEAR (ROLLER 5 COMMUNICATION)	
462	X-4954-624-1	LEVER (SLIDER 4) ASSY	
463	4-992-069-01	SCREW (+PTPWH) (M2) (DIA. 7)	
464	4-240-981-01	SPRING (BASE SLIDER 5), TENSION	
465	4-240-041-01	SPRING (SLIDER 2), TENSION	
466	3-087-053-01	+BVTP2.6 (3CR)	
467	4-243-916-01	ROLLER (S), RUBBER	
468	4-244-035-01	ROLLER (STOCKER), RUBBER	
469	4-241-209-01	SHEET, ADHESIVE	
470	4-239-649-01	PARASOL (STOCKER)	
471	4-239-671-01	GEAR (ROLLER 5 CENTER	
472	X-4954-627-1	BASE (SLIDER 5) ASSY	
473	1-686-726-13	ROLLER MOTOR BOARD	
475	4-244-162-01	SPRING (SLIDER 4), TENSION	
M781	A-4735-953-A	MOTOR (STOCKER) ASSY (ROLLER)	
#6	7-623-921-01	RING, RETAINING, CAPSTAN	

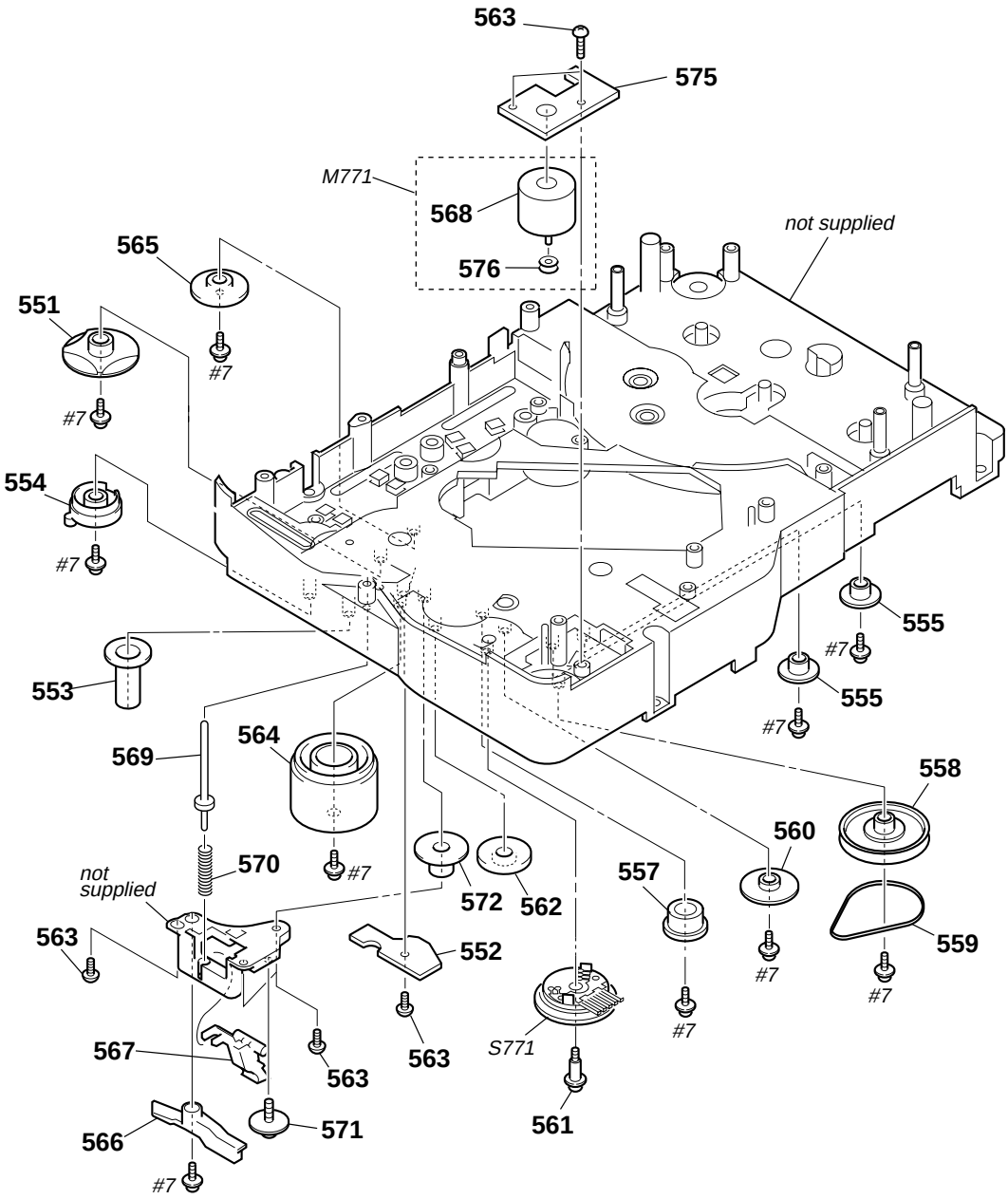
8-9. DVD MECHANISM DECK SECTION-5 (CDM69EH-DVBU101)



Ref. No.	Part No.	Description	Remark
501	4-240-020-01	GEAR (TIMING)	
502	4-239-708-02	BELT (FRONT), TIMING	
503	4-239-697-01	GEAR (CENTER)	
504	X-4955-157-1	SLIDER (MODE CAM V) ASSY	
505	4-239-706-02	BELT (REAR), TIMING	

Ref. No.	Part No.	Description	Remark
506	4-239-699-01	PULLEY	
507	4-247-349-02	BELT (ROLLER V)	
508	4-227-899-31	SCREW (DIA. 12), FROATING	
509	4-239-686-01	GEAR (ROLLER DECELERATION)	
#7	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

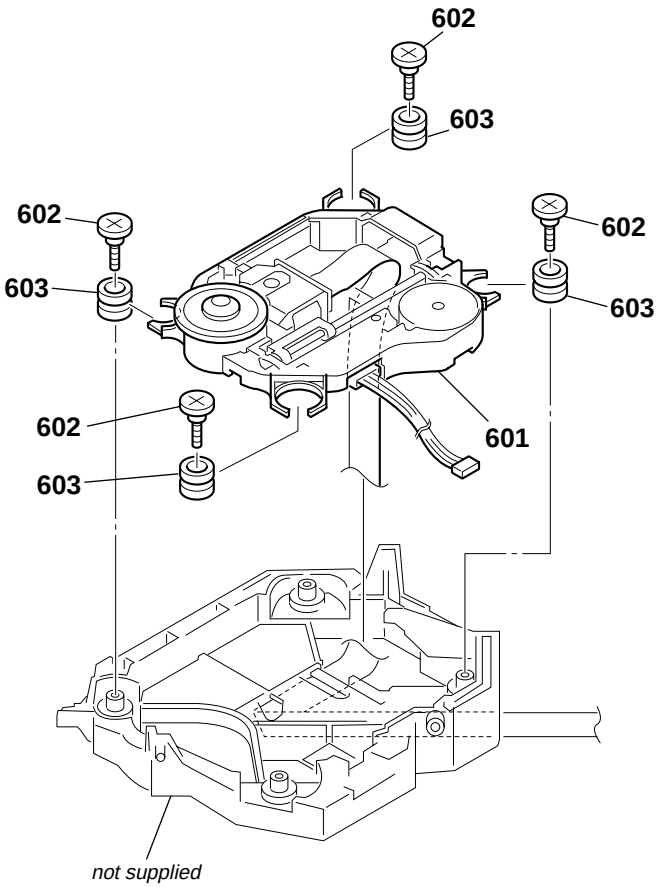
8-10. DVD MECHANISM DECK SECTION-6 (CDM69EH-DVBU101)



Ref. No.	Part No.	Description	Remark
551	4-239-693-02	CAM (GEAR)	
552	1-686-723-13	SENSOR BOARD	
553	4-239-696-01	GEAR (EJECT LOCK)	
554	4-239-695-02	CAM (EJECT LOCK)	
555	4-240-019-01	GEAR (MODE 5)	
557	4-243-682-01	GEAR (MODE C)	
558	4-239-683-01	PULLEY (MODE DECELERATION)	
559	4-243-702-01	BELT (MODE V)	
560	4-243-683-01	GEAR (MODE D)	
561	4-239-618-02	SCREW (+PWH, 2X6), STEP TAPPING	
562	4-243-681-01	GEAR (MODE B)	
563	3-087-053-01	+BVTP2.6 (3CR)	
564	4-239-692-02	CAM (BU U/D)	
565	4-239-694-01	GEAR (MODE CAM)	

Ref. No.	Part No.	Description	Remark
566	4-241-731-01	SHUTTER (A), LEVER	
567	4-241-732-01	SHUTTER (B), LEVER	
568	1-763-967-11	MOTOR, DC	
569	4-241-734-01	SHAFT (SHUTTER)	
570	4-241-735-01	SPRING (SHUTTER), COMPRESSION	
571	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
572	4-243-680-01	GEAR (MODE A)	
575	1-686-724-13	MODE MOTOR BOARD	
576	4-986-156-01	PULLEY, MOTOR	
M771	A-4735-953-A	MOTOR (STOCKER) ASSY (MODE)	
S771	1-477-300-11	ENCODER, ROTARY (MODE)	
#7	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

8-11. OPTICAL PICK-UP SECTION (KHM-310CAB/C2NP)



Ref. No.	Part No.	Description	Remark
⚠601	8-820-291-02	OPTICAL PICK-UP (KHM-310CAB/C2RP)	
602	3-087-599-01	INSULATOR SCREW	
603	3-088-372-01	INSULATOR	

SECTION 9
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. ., uPA. . : µPA. .,
  uPB. . : µPB. ., uPC. . : µPC. .,
  uPD. . : µPD. .
- Abbreviation
  CND: Canadian model.

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
☆	A-1110-958-A	DMB10 BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C102	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C105	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C112	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C117	1-124-779-00	ELECT CHIP	10uF	20%	16V
C118	1-124-779-00	ELECT CHIP	10uF	20%	16V
C119	1-124-779-00	ELECT CHIP	10uF	20%	16V
C120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C128	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C129	1-124-779-00	ELECT CHIP	10uF	20%	16V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C142	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C143	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C145	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C147	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C148	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C150	1-124-779-00	ELECT CHIP	10uF	20%	16V
C151	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C152	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C153	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C159	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C167	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C170	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C171	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C173	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C177	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C178	1-126-208-21	ELECT CHIP	47uF	20%	4V
C179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C182	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C184	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C187	1-126-208-21	ELECT CHIP	47uF	20%	4V
C188	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C189	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C190	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C193	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C195	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C196	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

☆ New part of EEP ROM (IC103) on the DMB10 board cannot be used. Therefore, if the mounted DMB10 board (A-1110-958-A) is replaced, exchange new EEP ROM (IC103) with that used before the replacement.

Ref. No.	Part No.	Description			Remark
C209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C217	1-126-204-11	ELECT CHIP	47uF	20%	16V
C218	1-124-779-00	ELECT CHIP	10uF	20%	16V
C219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C220	1-124-779-00	ELECT CHIP	10uF	20%	16V
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C402	1-126-204-11	ELECT CHIP	47uF	20%	16V
C403	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C4501	1-117-370-11	CERAMIC CHIP	10uF		10V
C4502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4801	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4802	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4803	1-117-370-11	CERAMIC CHIP	10uF		10V
		< CONNECTOR >			
CN101	1-815-763-11	CONNECTOR, FFC/FPC 24P			
* CN105	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
CN106	1-784-370-21	CONNECTOR, FFC/FPC 11P			
* CN201	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
CN401	1-779-993-11	PIN, CONNECTOR (PWB) 5P			
CN4501	1-784-370-21	CONNECTOR, FFC/FPC 11P			
CN4801	1-779-338-11	CONNECTOR, FFC/FPC 28P			
CN4802	1-779-330-21	CONNECTOR, FFC/FPC 12P			
		< DIODE >			
D1001	8-719-058-24	DIODE RB501V-40TE-17			
D3501	8-719-988-61	DIODE 1SS355TE-17			
D3502	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB111	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB112	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB113	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB114	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB115	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB401	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB402	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB403	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB404	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB405	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB406	1-469-324-21	FERRITE, EMI (SMD) (2012)			
		< FLUORESCENT INDICATOR >			
FL101	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
FL104	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
FL105	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
FL106	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
FL107	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
FL108	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
FL401	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
FL402	1-233-893-21	FILTER, CHIP EMI			
FL403	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
FL4501	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
FL4801	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
		< IC >			
IC101	6-805-257-01	IC MBM29DL32TF70-CHD1-0501UC			
IC102	6-706-727-01	IC CXD9804R			
☆ IC103	(Not supplied)	IC BR24L64F-WE2			
IC104	6-706-390-11	IC HY57V641620HGTP-HDR			
IC105	6-702-302-01	IC TK11133CSCL-G			
IC106	6-708-153-01	IC PQ018EN01ZPH			
IC107	6-702-302-01	IC TK11133CSCL-G			
IC201	6-704-524-01	IC FAN8036L			
IC4501	8-759-573-97	IC SN74LVC541APWR			
IC4502	8-759-649-50	IC SN74AHC1GU04DCKR			
IC4801	6-703-589-01	IC SN74LVC1G125DCKR			
IC4802	8-759-649-50	IC SN74AHC1GU04DCKR			
		< TRANSISTOR >			
Q101	6-550-008-01	TRANSISTOR	UM6K1N-TN		
Q102	6-550-653-01	TRANSISTOR	QST8TR		
Q103	8-729-027-52	TRANSISTOR	DTC124EKA-T146		
		< RESISTOR >			
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-864-11	SHORT CHIP	0		
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-857-11	METAL CHIP	1M	5%	1/10W
R109	1-216-864-11	SHORT CHIP	0		
R110	1-216-841-11	METAL CHIP	47K	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R117	1-216-841-11	METAL CHIP	47K	5%	1/10W
R118	1-216-801-11	METAL CHIP	22	5%	1/10W
R120	1-216-801-11	METAL CHIP	22	5%	1/10W
R121	1-216-801-11	METAL CHIP	22	5%	1/10W
R123	1-216-864-11	SHORT CHIP	0		
R124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R126	1-216-864-11	SHORT CHIP	0		
R127	1-216-809-11	METAL CHIP	100	5%	1/10W
R133	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R134	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R135	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R136	1-216-835-11	METAL CHIP	15K	5%	1/10W
R138	1-216-845-11	METAL CHIP	100K	5%	1/10W
R141	1-218-916-11	METAL CHIP	750K	0.5%	1/10W
R142	1-216-845-11	METAL CHIP	100K	5%	1/10W

☆ New part of EEP ROM (IC103) on the DMB10 board cannot be used. Therefore, if the mounted DMB10 board (A-1110-958-A) is replaced, exchange new EEP ROM (IC103) with that used before the replacement.

DMB10

Ref. No.	Part No.	Description			Remark
R143	1-216-809-11	METAL CHIP	100	5%	1/10W
R144	1-216-864-11	SHORT CHIP	0		
R146	1-216-805-11	METAL CHIP	47	5%	1/10W
R151	1-216-805-11	METAL CHIP	47	5%	1/10W
R152	1-216-864-11	SHORT CHIP	0		
R153	1-216-805-11	METAL CHIP	47	5%	1/10W
R155	1-216-805-11	METAL CHIP	47	5%	1/10W
R160	1-216-805-11	METAL CHIP	47	5%	1/10W
R161	1-216-809-11	METAL CHIP	100	5%	1/10W
R164	1-216-809-11	METAL CHIP	100	5%	1/10W
R169	1-216-833-11	METAL CHIP	10K	5%	1/10W
R187	1-216-864-11	SHORT CHIP	0		
R191	1-216-821-11	METAL CHIP	1K	5%	1/10W
R193	1-216-821-11	METAL CHIP	1K	5%	1/10W
R196	1-216-864-11	SHORT CHIP	0		
R204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R208	1-216-839-11	METAL CHIP	33K	5%	1/10W
R209	1-216-839-11	METAL CHIP	33K	5%	1/10W
R210	1-216-841-11	METAL CHIP	47K	5%	1/10W
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R214	1-216-835-11	METAL CHIP	15K	5%	1/10W
R215	1-216-834-11	METAL CHIP	12K	5%	1/10W
R216	1-216-834-11	METAL CHIP	12K	5%	1/10W
R219	1-216-838-11	METAL CHIP	27K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1101	1-216-818-11	METAL CHIP	560	5%	1/10W
R1103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1107	1-216-864-11	SHORT CHIP	0		
R1108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1109	1-216-864-11	SHORT CHIP	0		
R1110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1133	1-216-864-11	SHORT CHIP	0		
R1134	1-216-864-11	SHORT CHIP	0		
R1150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1168	1-216-817-11	METAL CHIP	470	5%	1/10W
R1502	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R1504	1-400-244-11	BEAD, FERRITE (CHIP) (1608)			
R1505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1506	1-216-864-11	SHORT CHIP	0		
R1508	1-500-282-11	INDUCTOR, FERRITE BEAD			
R1510	1-216-864-11	SHORT CHIP	0		
R1511	1-500-282-11	INDUCTOR, FERRITE BEAD			
R1512	1-500-282-11	INDUCTOR, FERRITE BEAD			
R1513	1-500-282-11	INDUCTOR, FERRITE BEAD			
R1514	1-500-282-11	INDUCTOR, FERRITE BEAD			
R1515	1-500-282-11	INDUCTOR, FERRITE BEAD			
R1516	1-500-282-11	INDUCTOR, FERRITE BEAD			
R1517	1-500-282-11	INDUCTOR, FERRITE BEAD			
R1518	1-500-282-11	INDUCTOR, FERRITE BEAD			
R1519	1-216-803-11	METAL CHIP	33	5%	1/10W
R1520	1-216-803-11	METAL CHIP	33	5%	1/10W
R1521	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1522	1-216-864-11	SHORT CHIP	0		
R1523	1-216-864-11	SHORT CHIP	0		
R1528	1-216-864-11	SHORT CHIP	0		
R1530	1-216-864-11	SHORT CHIP	0		
R1531	1-216-864-11	SHORT CHIP	0		
R1540	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1544	1-216-864-11	SHORT CHIP	0		
R1546	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1547	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1549	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1550	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1552	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R1553	1-216-864-11	SHORT CHIP	0		
R1554	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1557	1-216-809-11	METAL CHIP	100	5%	1/10W
R2504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R4501	1-216-864-11	SHORT CHIP	0		
R4502	1-216-864-11	SHORT CHIP	0		
R4510	1-216-805-11	METAL CHIP	47	5%	1/10W
R4511	1-216-809-11	METAL CHIP	100	5%	1/10W
R4512	1-400-244-11	BEAD, FERRITE (CHIP) (1608)			
R4513	1-216-864-11	SHORT CHIP	0		
R4514	1-216-809-11	METAL CHIP	100	5%	1/10W
R4515	1-216-809-11	METAL CHIP	100	5%	1/10W
R4516	1-216-809-11	METAL CHIP	100	5%	1/10W
R4518	1-216-864-11	SHORT CHIP	0		
R4520	1-216-864-11	SHORT CHIP	0		
R4801	1-216-864-11	SHORT CHIP	0		
R4802	1-216-864-11	SHORT CHIP	0		
R4803	1-216-864-11	SHORT CHIP	0		
R4804	1-216-864-11	SHORT CHIP	0		
R4805	1-400-244-11	BEAD, FERRITE (CHIP) (1608)			
R4806	1-216-806-11	METAL CHIP	56	5%	1/10W
		< COMPOSITION CIRCUIT BLOCK >			
RB103	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB104	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB105	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB106	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB107	1-234-370-21	RES, NETWORK	22 (1005X4)		

Ref. No.	Part No.	Description			Remark
RB108	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB111	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB112	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB113	1-234-370-21	RES, NETWORK 22 (1005X4)			
		< VIBRATOR >			
X101	1-781-867-21	VIBRATOR, CRYSTAL (27MHz)			
**********					
	A-1104-753-A	FL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C800	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C801	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V
C802	1-126-795-11	ELECT	10uF	20%	50V
C803	1-124-584-00	ELECT	100uF	20%	10V
C804	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C805	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C806	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C808	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C809	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C810	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C811	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C812	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C813	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C814	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C815	1-117-370-11	CERAMIC CHIP	10uF		10V
C816	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C817	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C818	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C819	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C820	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C821	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C822	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C823	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C824	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C825	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C826	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C827	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C828	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C829	1-126-795-11	ELECT	10uF	20%	50V
C833	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C881	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C882	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C883	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C884	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C885	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C886	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C887	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C888	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C889	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C890	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C891	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
		< CONNECTOR >			
CN801	1-794-354-11	CONNECTOR, FFC/FPC 19P			
CN802	1-784-867-21	CONNECTOR, FFC (LIF (NON-ZIF)) 15P			
CN804	1-506-468-11	PIN, CONNECTOR 3P			
		< DIODE >			
D801	8-719-988-61	DIODE 1SS355TE-17			
D802	8-719-988-61	DIODE 1SS355TE-17			
D803	8-719-069-56	DIODE UDZSTE-176.2B			
D804	8-719-988-61	DIODE 1SS355TE-17			
D805	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB801	1-414-813-11	FERRITE, EMI (SMD) (2012)			
FB802	1-414-813-11	FERRITE, EMI (SMD) (2012)			
		< FLUORESCENT INDICATOR >			
FL801	1-519-810-11	VACUUM FLUORESCENT DISPLAYS			
		< IC >			
IC801	6-600-349-21	IC NJL23H400A			
IC802	6-704-046-01	IC BU2099FV			
IC803	6-705-899-01	IC ML9208-03MBZ03B			
		< COIL >			
L801	1-410-671-31	INDUCTOR	47uH		
L802	1-400-135-11	INDUCTOR	1uH		
L803	1-400-135-11	INDUCTOR	1uH		
L804	1-400-135-11	INDUCTOR	1uH		
		< TRANSISTOR >			
Q801	6-550-065-01	TRANSISTOR	CPH5504-TL-E		
Q802	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
		< RESISTOR >			
R801	1-216-839-11	METAL CHIP	33K	5%	1/10W
R802	1-216-809-11	METAL CHIP	100	5%	1/10W
R804	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R805	1-216-295-91	SHORT CHIP	0		
R810	1-216-864-11	SHORT CHIP	0		
R812	1-216-864-11	SHORT CHIP	0		
R813	1-216-809-11	METAL CHIP	100	5%	1/10W
R814	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R815	1-216-809-11	METAL CHIP	100	5%	1/10W
R816	1-216-809-11	METAL CHIP	100	5%	1/10W
R817	1-216-809-11	METAL CHIP	100	5%	1/10W
R818	1-216-809-11	METAL CHIP	100	5%	1/10W
R819	1-216-809-11	METAL CHIP	100	5%	1/10W
R820	1-216-833-11	METAL CHIP	10K	5%	1/10W
R821	1-216-805-11	METAL CHIP	47	5%	1/10W
R845	1-216-821-11	METAL CHIP	1K	5%	1/10W
R846	1-216-809-11	METAL CHIP	100	5%	1/10W
R872	1-216-821-11	METAL CHIP	1K	5%	1/10W
R875	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< TRANSFORMER >			
T801	1-443-757-11	TRANSFORMER, DC-DC CONVERTER			
**********					

H/P **I/O**

Ref. No.	Part No.	Description			Remark
		H/P BOARD			
		*********			
		< CAPACITOR >			
C862	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C866	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C870	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C872	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C873	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
		< DIODE >			
D824	8-719-988-61	DIODE 1SS355TE-17			
D825	8-719-988-61	DIODE 1SS355TE-17			
		< TERMINAL BOARD >			
EB802	1-537-770-21	TERMINAL BOARD, GROUND			
		< FERRITE BEAD >			
FB811	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB812	1-500-284-21	INDUCTOR, FERRITE BEAD			
FB813	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB814	1-216-295-91	SHORT CHIP	0		
		< JACK >			
J801	1-566-891-21	JACK (PHONES)			
		< COIL >			
L811	1-216-864-11	SHORT CHIP	0		
L812	1-469-144-21	FERRITE, EMI (SMD) (2012)			
L813	1-216-864-11	SHORT CHIP	0		
L814	1-469-144-21	FERRITE, EMI (SMD) (2012)			
		< TRANSISTOR >			
Q806	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
Q807	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
Q808	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
Q809	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
		< RESISTOR >			
R861	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R862	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R863	1-216-801-11	METAL CHIP	22	5%	1/10W
R864	1-216-801-11	METAL CHIP	22	5%	1/10W
R865	1-216-805-11	METAL CHIP	47	5%	1/10W
R866	1-216-805-11	METAL CHIP	47	5%	1/10W
R867	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R868	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R869	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R870	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
**********					
	A-1110-952-A	I/O BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C102	1-126-933-11	ELECT	100uF	20%	16V
C103	1-124-234-00	ELECT	22uF	20%	16V
C104	1-124-234-00	ELECT	22uF	20%	16V
C109	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C201	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C203	1-125-972-91	ELECT	100uF	20%	16V
C204	1-124-261-00	ELECT	10uF	20%	25V
C205	1-126-964-11	ELECT	10uF	20%	50V
C206	1-124-261-00	ELECT	10uF	20%	25V
C207	1-124-261-00	ELECT	10uF	20%	25V
C208	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C209	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C210	1-126-176-11	ELECT	220uF	20%	10V
C211	1-124-261-00	ELECT	10uF	20%	25V
C212	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C213	1-126-933-11	ELECT	100uF	20%	16V
C214	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C215	1-115-156-11	CERAMIC CHIP	1uF		10V
C216	1-115-156-11	CERAMIC CHIP	1uF		10V
C217	1-125-972-91	ELECT	100uF	20%	16V
C218	1-115-156-11	CERAMIC CHIP	1uF		10V
C219	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C220	1-124-261-00	ELECT	10uF	20%	25V
C221	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C222	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C223	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C224	1-126-916-11	ELECT	1000uF	20%	6.3V
C225	1-126-916-11	ELECT	1000uF	20%	6.3V
C226	1-126-916-11	ELECT	1000uF	20%	6.3V
C227	1-126-933-11	ELECT	100uF	20%	16V
C228	1-126-933-11	ELECT	100uF	20%	16V
C231	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C242	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C600	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C601	1-126-933-11	ELECT	100uF	20%	16V
C602	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C605	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C606	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C607	1-124-234-00	ELECT	22uF	20%	16V
C608	1-125-972-91	ELECT	100uF	20%	16V
C609	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C610	1-124-234-00	ELECT	22uF	20%	16V
C611	1-124-234-00	ELECT	22uF	20%	16V
C612	1-104-662-91	ELECT	22uF	20%	25V
C613	1-104-662-91	ELECT	22uF	20%	25V
C614	1-104-662-91	ELECT	22uF	20%	25V
C615	1-126-160-11	ELECT	1uF	20%	50V
C616	1-126-160-11	ELECT	1uF	20%	50V
C617	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C622	1-124-234-00	ELECT	22uF	20%	16V
C623	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C624	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C625	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C626	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C658	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C661	1-126-933-11	ELECT	100uF	20%	16V
C663	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C665	1-125-972-91	ELECT	100uF	20%	16V
C666	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN101	1-568-828-11	CONNECTOR, FFC 9P			
CN201	1-779-281-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P			
CN601	1-779-291-11	CONNECTOR, FFC (LIF (NON-ZIF)) 23P			
		< IC >			
IC201	6-705-602-01	IC MM1623BFBE			
IC203	8-759-696-10	IC NJM2235V (TE2)			
IC204	8-759-284-49	IC NJM2285V-TE2			
IC601	8-759-385-76	IC MC14052 BDR2			
IC602	8-759-649-89	IC MC4558CD			
IC603	6-600-014-01	IC TORX141L (OPTICAL DIGITAL IN)			
IC608	8-759-649-50	IC SN74AHC1GU04DCKR			
		< JACK >			
J201	1-780-211-11	TERMINAL BOARD (S TERMINAL+1P) (MONITOR OUT)			
J202	1-817-449-11	JACK, PIN 3P (COMPONENT VIDEO OUT)			
J601	1-816-605-11	JACK, PIN 6P (AUDIO IN/VIDEO IN)			
J604	1-784-431-11	JACK, PIN 1P (COXIAL IN)			
		< COIL >			
L101	1-469-525-91	INDUCTOR	10uH		
L201	1-469-525-91	INDUCTOR	10uH		
L202	1-469-525-91	INDUCTOR	10uH		
L601	1-469-525-91	INDUCTOR	10uH		
L602	1-469-525-91	INDUCTOR	10uH		
L604	1-469-525-91	INDUCTOR	10uH		
		< TRANSISTOR >			
Q603	8-729-901-00	TRANSISTOR	DTC124EK		
Q604	8-729-901-00	TRANSISTOR	DTC124EK		
		< RESISTOR >			
R102	1-216-864-11	SHORT CHIP	0		
R105	1-216-845-11	METAL CHIP	100K	5%	1/10W
R109	1-216-864-11	SHORT CHIP	0		
R114	1-216-864-11	SHORT CHIP	0		
R115	1-216-845-11	METAL CHIP	100K	5%	1/10W
R116	1-216-845-11	METAL CHIP	100K	5%	1/10W
R117	1-216-845-11	METAL CHIP	100K	5%	1/10W
R201	1-218-285-11	METAL CHIP	75	5%	1/10W
R202	1-218-285-11	METAL CHIP	75	5%	1/10W
R203	1-216-864-11	SHORT CHIP	0		
R204	1-216-821-11	METAL CHIP	1K	5%	1/10W
R205	1-216-864-11	SHORT CHIP	0		
R206	1-216-864-11	SHORT CHIP	0		
R207	1-216-864-11	SHORT CHIP	0		
R209	1-216-864-11	SHORT CHIP	0		
R226	1-216-864-11	SHORT CHIP	0		
R228	1-216-833-11	METAL CHIP	10K	5%	1/10W
R229	1-218-285-11	METAL CHIP	75	5%	1/10W
R230	1-218-285-11	METAL CHIP	75	5%	1/10W
R231	1-218-285-11	METAL CHIP	75	5%	1/10W
R232	1-218-285-11	METAL CHIP	75	5%	1/10W
R233	1-218-285-11	METAL CHIP	75	5%	1/10W
R241	1-218-285-11	METAL CHIP	75	5%	1/10W

Ref. No.	Part No.	Description			Remark
R601	1-216-833-11	METAL CHIP	10K	5%	1/10W
R602	1-216-833-11	METAL CHIP	10K	5%	1/10W
R603	1-216-833-11	METAL CHIP	10K	5%	1/10W
R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R607	1-216-841-11	METAL CHIP	47K	5%	1/10W
R608	1-216-841-11	METAL CHIP	47K	5%	1/10W
R609	1-216-817-11	METAL CHIP	470	5%	1/10W
R610	1-216-817-11	METAL CHIP	470	5%	1/10W
R611	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R612	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R613	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R614	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R615	1-216-841-11	METAL CHIP	47K	5%	1/10W
R616	1-216-841-11	METAL CHIP	47K	5%	1/10W
R617	1-216-821-11	METAL CHIP	1K	5%	1/10W
R618	1-216-833-11	METAL CHIP	10K	5%	1/10W
R619	1-216-821-11	METAL CHIP	1K	5%	1/10W
R620	1-216-833-11	METAL CHIP	10K	5%	1/10W
R623	1-216-841-11	METAL CHIP	47K	5%	1/10W
R624	1-216-841-11	METAL CHIP	47K	5%	1/10W
R625	1-216-841-11	METAL CHIP	47K	5%	1/10W
R626	1-216-841-11	METAL CHIP	47K	5%	1/10W
R627	1-216-841-11	METAL CHIP	47K	5%	1/10W
R628	1-216-841-11	METAL CHIP	47K	5%	1/10W
R635	1-216-833-11	METAL CHIP	10K	5%	1/10W
R648	1-216-833-11	METAL CHIP	10K	5%	1/10W
R649	1-216-833-11	METAL CHIP	10K	5%	1/10W
R650	1-216-833-11	METAL CHIP	10K	5%	1/10W
R651	1-216-833-11	METAL CHIP	10K	5%	1/10W
R654	1-216-833-11	METAL CHIP	10K	5%	1/10W
R655	1-216-833-11	METAL CHIP	10K	5%	1/10W
R656	1-216-833-11	METAL CHIP	10K	5%	1/10W
R659	1-216-809-11	METAL CHIP	100	5%	1/10W
R661	1-216-809-11	METAL CHIP	100	5%	1/10W
R663	1-216-853-11	METAL CHIP	470K	5%	1/10W
R664	1-216-841-11	METAL CHIP	47K	5%	1/10W
R665	1-216-817-11	METAL CHIP	470	5%	1/10W
R666	1-218-285-11	METAL CHIP	75	5%	1/10W
R669	1-216-864-11	SHORT CHIP	0		
R670	1-216-864-11	SHORT CHIP	0		
**********					
		KEY BOARD			
		*********			
		< RESISTOR >			
R851	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R852	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R853	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R855	1-216-821-11	METAL CHIP	1K	5%	1/10W
R856	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R857	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R858	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
		< SWITCH >			
S801	1-786-763-11	SWITCH, TACTILE (I◀◀)			
S802	1-786-763-11	SWITCH, TACTILE (VOLUME +)			
S804	1-786-763-11	SWITCH, TACTILE (FUNCTION)			

KEY **LED** **MAIN**

Ref. No.	Part No.	Description			Remark
S805	1-786-763-11	SWITCH, TACTILE (❚❚)			
S806	1-786-763-11	SWITCH, TACTILE (■)			
S807	1-786-763-11	SWITCH, TACTILE (►►I)			
S808	1-786-763-11	SWITCH, TACTILE (VOLUME –)			
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		LED BOARD			
		*********			
		< CONNECTOR >			
CN803	1-784-867-21	CONNECTOR, FFC (LIF (NON-ZIF)) 15P			
		< DIODE >			
D811	8-719-079-89	DIODE SML-020MDT-T86 (DISC1)			
D812	8-719-079-89	DIODE SML-020MDT-T86 (DISC2)			
D813	8-719-079-89	DIODE SML-020MDT-T86 (DISC3)			
D814	8-719-079-89	DIODE SML-020MDT-T86 (DISC4)			
D815	8-719-079-89	DIODE SML-020MDT-T86 (DISC5)			
		< RESISTOR >			
R822	1-216-817-11	METAL CHIP	470	5%	1/10W
R823	1-216-817-11	METAL CHIP	470	5%	1/10W
R824	1-216-817-11	METAL CHIP	470	5%	1/10W
R825	1-216-817-11	METAL CHIP	470	5%	1/10W
R826	1-216-817-11	METAL CHIP	470	5%	1/10W
R827	1-216-817-11	METAL CHIP	470	5%	1/10W
R828	1-216-817-11	METAL CHIP	470	5%	1/10W
R829	1-216-817-11	METAL CHIP	470	5%	1/10W
R830	1-216-817-11	METAL CHIP	470	5%	1/10W
R831	1-216-817-11	METAL CHIP	470	5%	1/10W
R833	1-216-821-11	METAL CHIP	1K	5%	1/10W
R834	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R835	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R836	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R837	1-216-833-11	METAL CHIP	10K	5%	1/10W
R838	1-216-837-11	METAL CHIP	22K	5%	1/10W
R839	1-216-841-11	METAL CHIP	47K	5%	1/10W
		< SWITCH >			
S809	1-786-763-11	SWITCH, TACTILE (▻)			
S810	1-786-763-11	SWITCH, TACTILE (⏏)			
S811	1-786-763-11	SWITCH, TACTILE (DISC5)			
S812	1-786-763-11	SWITCH, TACTILE (DISC4)			
S813	1-786-763-11	SWITCH, TACTILE (DISC3)			
S814	1-786-763-11	SWITCH, TACTILE (DISC2)			
S815	1-786-763-11	SWITCH, TACTILE (DISC1)			
S816	1-786-763-11	SWITCH, TACTILE (I/⏻)			
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	A-1110-946-A	MAIN BOARD, COMPLETE			
		**********			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3			
		< CAPACITOR >			
C101	1-164-346-11	CERAMIC CHIP	1uF		16V
C102	1-164-346-11	CERAMIC CHIP	1uF		16V
C103	1-164-346-11	CERAMIC CHIP	1uF		16V
C104	1-164-346-11	CERAMIC CHIP	1uF		16V
C105	1-164-346-11	CERAMIC CHIP	1uF		16V
C106	1-164-346-11	CERAMIC CHIP	1uF		16V
C107	1-164-346-11	CERAMIC CHIP	1uF		16V
C108	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C109	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C110	1-163-205-00	CERAMIC CHIP	0.001uF	10%	50V
C111	1-164-346-11	CERAMIC CHIP	1uF		16V
C112	1-164-346-11	CERAMIC CHIP	1uF		16V
C113	1-164-346-11	CERAMIC CHIP	1uF		16V
C114	1-164-346-11	CERAMIC CHIP	1uF		16V
C115	1-164-346-11	CERAMIC CHIP	1uF		16V
C116	1-164-346-11	CERAMIC CHIP	1uF		16V
C117	1-164-346-11	CERAMIC CHIP	1uF		16V
C119	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C120	1-126-947-11	ELECT	47uF	20%	35V
C131	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C132	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C133	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C134	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C135	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C136	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C137	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C141	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C142	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C143	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C144	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C145	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C146	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C147	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C151	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C152	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C153	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C154	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C155	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C156	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C157	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C161	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C162	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C163	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C164	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C165	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C166	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C167	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C171	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C172	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C173	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C174	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C175	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C176	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C177	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C181	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C182	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C183	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C184	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C185	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C186	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C187	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V

Ref. No.	Part No.	Description			Remark
C188	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C189	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C190	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C191	1-107-898-11	ELECT	2200uF	20%	35V
C192	1-107-898-11	ELECT	2200uF	20%	35V
C193	1-107-898-11	ELECT	2200uF	20%	35V
C194	1-107-898-11	ELECT	2200uF	20%	35V
C195	1-107-898-11	ELECT	2200uF	20%	35V
C196	1-107-898-11	ELECT	2200uF	20%	35V
C197	1-107-898-11	ELECT	2200uF	20%	35V
C198	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C199	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C200	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C201	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C202	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C203	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C204	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C205	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C206	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C207	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C208	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C209	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C210	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C211	1-136-177-00	FILM	1uF	5%	50V
C212	1-136-177-00	FILM	1uF	5%	50V
C213	1-136-177-00	FILM	1uF	5%	50V
C214	1-136-177-00	FILM	1uF	5%	50V
C215	1-136-177-00	FILM	1uF	5%	50V
C216	1-136-177-00	FILM	1uF	5%	50V
C217	1-136-177-00	FILM	1uF	5%	50V
C218	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C221	1-136-177-00	FILM	1uF	5%	50V
C222	1-136-177-00	FILM	1uF	5%	50V
C223	1-136-177-00	FILM	1uF	5%	50V
C224	1-136-177-00	FILM	1uF	5%	50V
C225	1-136-177-00	FILM	1uF	5%	50V
C226	1-136-177-00	FILM	1uF	5%	50V
C227	1-136-177-00	FILM	1uF	5%	50V
C248	1-126-947-11	ELECT	47uF	20%	35V
C251	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C252	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C253	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C254	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C255	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C256	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C257	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C261	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C262	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C263	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C264	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C265	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C266	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C267	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C268	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C269	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C271	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C272	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C273	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C274	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C275	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C276	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C277	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C278	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C279	1-163-009-91	CERAMIC CHIP	0.001uF	10%	50V
C280	1-163-009-91	CERAMIC CHIP	0.001uF	10%	50V
C281	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C282	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C283	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C284	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C285	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C286	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C287	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C288	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C289	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C290	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C291	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C292	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C293	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C294	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C296	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C297	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C298	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C299	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C301	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C302	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C303	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C304	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C305	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C306	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C307	1-126-933-11	ELECT	100uF	20%	16V
C308	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C309	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C310	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C311	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C312	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C313	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C314	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C315	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C316	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C317	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C318	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C319	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C320	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C321	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C322	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C323	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C324	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C325	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C326	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C327	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C328	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C329	1-126-947-11	ELECT	47uF	20%	35V
C332	1-126-947-11	ELECT	47uF	20%	35V
C335	1-126-947-11	ELECT	47uF	20%	35V
C350	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C351	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C352	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C353	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C354	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C356	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C357	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C358	1-126-925-91	ELECT	470uF	20%	10V
C359	1-126-925-91	ELECT	470uF	20%	10V
C360	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C361	1-126-947-11	ELECT	47uF	20%	35V
C362	1-104-658-91	ELECT	100uF	20%	10V
C363	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C366	1-126-934-11	ELECT	220uF	20%	16V
C367	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C368	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C371	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C372	1-126-960-11	ELECT	1uF	20%	50V
C374	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C375	1-126-933-11	ELECT	100uF	20%	16V
C377	1-126-964-11	ELECT	10uF	20%	50V
C380	1-126-923-91	ELECT	220uF	20%	10V
C381	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C382	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C383	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C384	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C385	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C391	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C392	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C393	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C394	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C395	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C396	1-117-370-11	CERAMIC CHIP	10uF		10V
C402	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C403	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C404	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C405	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C406	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C436	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C511	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C512	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C514	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C517	1-126-964-11	ELECT	10uF	20%	50V
C518	1-126-964-11	ELECT	10uF	20%	50V
C524	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C525	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C526	1-126-947-11	ELECT	47uF	20%	35V
C527	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C528	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C529	1-126-964-11	ELECT	10uF	20%	50V
C530	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C531	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C532	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C533	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C534	1-162-916-11	CERAMIC CHIP	12PF	5%	50V

Ref. No.	Part No.	Description			Remark
C535	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C536	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C538	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C539	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C540	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C541	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C542	1-126-923-91	ELECT	220uF	20%	10V
C543	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C544	1-126-964-11	ELECT	10uF	20%	50V
C545	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C546	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C547	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C548	1-216-864-11	SHORT CHIP	0		
C549	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C551	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C552	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C554	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C555	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C556	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C557	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C558	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C559	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C560	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C561	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C562	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C563	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C564	1-126-964-11	ELECT	10uF	20%	50V
C565	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C567	1-126-923-91	ELECT	220uF	20%	10V
C568	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C569	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C570	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C571	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C572	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C575	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C577	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C580	1-126-916-11	ELECT	1000uF	20%	6.3V
C582	1-104-658-91	ELECT	100uF	20%	10V
C583	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C587	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C589	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C594	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C595	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C596	1-126-947-11	ELECT	47uF	20%	35V
C597	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C598	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C601	1-126-947-11	ELECT	47uF	20%	35V
C602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C603	1-104-658-91	ELECT	100uF	20%	10V
C606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C608	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C614	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C615	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C712	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C716	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C762	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C798	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C799	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C856	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C875	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
⚠C901	1-165-529-11	MYLAR	0.22uF	10	275V
⚠C902	1-165-529-11	MYLAR	0.22uF	10	275V
⚠C903	1-112-330-11	ELECT (BLOCK)	1000uF	20%	200V
⚠C905	1-112-334-91	FILM	0.01uF	5%	400V
⚠C906	1-112-473-11	CERAMIC	0.0015uF	10%	500V
⚠C907	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
⚠C908	1-107-909-11	ELECT	47uF	20%	50V
⚠C909	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
⚠C910	1-107-906-11	ELECT	10uF	20%	50V
⚠C911	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠C912	1-113-907-51	CERAMIC	0.0022uF	20%	250V
⚠C913	1-117-693-11	CERAMIC	100PF	10%	250V
⚠C918	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C920	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C921	1-165-136-11	CERAMIC	3300PF	10%	500V
⚠C922	1-128-560-11	ELECT	22uF	20%	100V
⚠C923	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠C924	1-124-257-00	ELECT	2.2uF	20%	50V
⚠C925	1-107-974-81	CERAMIC	47PF	5%	2KV
⚠C928	1-113-896-11	CERAMIC	220PF	10%	250V
⚠C929	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C931	1-117-580-91	FILM	47000PF	5%	630V
C932	1-100-924-21	ELECT	2200uF	20%	35V
C933	1-100-924-21	ELECT	2200uF	20%	35V
C934	1-107-898-11	ELECT	2200uF	20%	35V
C935	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C936	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C937	1-100-756-91	CERAMIC CHIP	0.047uF		50V
⚠C938	1-113-898-11	CERAMIC	330PF	10%	250V
C939	1-136-165-00	FILM	0.1uF	5%	50V
C940	1-128-947-31	ELECT	3300uF	20%	10V
C941	1-128-954-21	ELECT	1000uF	20%	25V
C942	1-126-941-11	ELECT	470uF	20%	25V
C943	1-126-933-11	ELECT	100uF	20%	16V
C944	1-128-951-21	ELECT	2200uF	20%	16V
C945	1-126-935-11	ELECT	470uF	20%	16V
C946	1-128-950-21	ELECT	1000uF	20%	16V
C947	1-104-658-91	ELECT	100uF	20%	10V
C948	1-126-925-91	ELECT	470uF	20%	10V
C949	1-165-722-31	ELECT	100uF	20%	10V
C951	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C952	1-100-756-91	CERAMIC CHIP	0.047uF		50V
C953	1-117-214-11	CERAMIC	0.001uF	10%	2KV
C954	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C955	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C958	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C960	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
⚠C963	1-117-698-51	CERAMIC	680PF	10%	250V
⚠C964	1-117-698-51	CERAMIC	680PF	10%	250V
C967	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C968	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN300	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
* CN309	1-568-954-11	PIN, CONNECTOR 5P			

Ref. No.	Part No.	Description	Remark
CN502	1-784-384-11	CONNECTOR, FFC/FPC 27P	
CN504	1-784-370-21	CONNECTOR, FFC/FPC 11P	
CN505	1-784-370-21	CONNECTOR, FFC/FPC 11P	
CN507	1-793-991-11	FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 23P	
CN509	1-779-287-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P	
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
		< DIODE >	
D101	6-500-260-01	DIODE P6SMB39AT3	
D102	6-500-260-01	DIODE P6SMB39AT3	
D103	6-500-260-01	DIODE P6SMB39AT3	
D104	6-500-260-01	DIODE P6SMB39AT3	
D105	6-500-260-01	DIODE P6SMB39AT3	
D106	6-500-260-01	DIODE P6SMB39AT3	
D107	6-500-260-01	DIODE P6SMB39AT3	
D201	6-500-260-01	DIODE P6SMB39AT3	
D202	6-500-260-01	DIODE P6SMB39AT3	
D203	6-500-260-01	DIODE P6SMB39AT3	
D204	6-500-260-01	DIODE P6SMB39AT3	
D205	6-500-260-01	DIODE P6SMB39AT3	
D206	6-500-260-01	DIODE P6SMB39AT3	
D207	6-500-260-01	DIODE P6SMB39AT3	
D303	8-719-988-61	DIODE 1SS355TE-17	
D304	8-719-988-61	DIODE 1SS355TE-17	
D503	8-719-988-61	DIODE 1SS355TE-17	
D504	8-719-988-61	DIODE 1SS355TE-17	
D505	8-719-988-61	DIODE 1SS355TE-17	
D506	8-719-988-61	DIODE 1SS355TE-17	
D509	8-719-988-61	DIODE 1SS355TE-17	
D510	8-719-988-61	DIODE 1SS355TE-17	
⚠D901	8-719-082-57	DIODE D5SBA60F01	
⚠D905	8-719-063-74	DIODE D1NL20U-TR2	
⚠D906	8-719-988-61	DIODE 1SS355TE-17	
⚠D907	8-719-988-61	DIODE 1SS355TE-17	
⚠D908	8-719-988-61	DIODE 1SS355TE-17	
⚠D909	8-719-988-61	DIODE 1SS355TE-17	
⚠D910	8-719-988-61	DIODE 1SS355TE-17	
⚠D913	6-500-241-01	DIODE SARS03	
⚠D914	8-719-988-61	DIODE 1SS355TE-17	
⚠D915	8-719-977-28	DIODE DTZ10B	
⚠D921	8-719-948-45	DIODE ERA22-08	
⚠D922	8-719-063-74	DIODE D1NL20U-TR2	
⚠D923	8-719-977-28	DIODE DTZ10B	
⚠D924	8-719-083-69	DIODE UDZSTE-1724B	
⚠D925	8-719-069-54	DIODE UDZSTE-175.1B	
⚠D926	8-719-083-69	DIODE UDZSTE-1724B	
D931	6-500-383-01	DIODE YG906C2R	
D932	8-719-069-54	DIODE UDZSTE-175.1B	
D941	8-719-063-74	DIODE D1NL20U-TR2	
D942	8-719-080-53	DIODE RK36LF-B3	
D943	8-719-080-53	DIODE RK36LF-B3	
D944	6-500-288-11	DIODE EK19LF-F7	
D945	8-719-083-67	DIODE UDZSTE-1720B	
		< TERMINAL BOARD >	
EB901	1-537-770-21	TERMINAL BOARD, GROUND	
EB902	1-537-770-21	TERMINAL BOARD, GROUND	
EB903	1-537-770-21	TERMINAL BOARD, GROUND	

MAIN

Ref. No.	Part No.	Description	Remark
EB904	1-537-770-21	TERMINAL BOARD, GROUND	
EB905	1-537-770-21	TERMINAL BOARD, GROUND	
EB906	1-537-770-21	TERMINAL BOARD, GROUND	
EB907	1-537-770-21	TERMINAL BOARD, GROUND	
EB908	1-537-770-21	TERMINAL BOARD, GROUND	
EB910	1-537-770-21	TERMINAL BOARD, GROUND	
EB911	1-537-770-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
FB301	1-469-760-21	FERRITE, EMI (SMD) (2012)	
FB302	1-216-295-91	SHORT CHIP 0	
FB501	1-216-295-91	SHORT CHIP 0	
FB509	1-469-121-21	FERRITE, EMI (SMD) (1608)	
FB511	1-216-295-91	SHORT CHIP 0	
FB512	1-216-295-91	SHORT CHIP 0	
FB902	1-410-396-41	FERRITE 0.45uH	
⚠FB905	1-410-396-41	FERRITE 0.45uH	
		< IC >	
IC101	6-705-695-01	IC CXD9775M	
IC102	6-705-695-01	IC CXD9775M	
IC103	6-705-695-01	IC CXD9775M	
IC104	6-705-695-01	IC CXD9775M	
IC105	6-705-695-01	IC CXD9775M	
IC106	6-705-695-01	IC CXD9775M	
IC107	6-705-695-01	IC CXD9775M	
IC108	6-707-939-01	IC CXD9843AR	
IC109	6-707-939-01	IC CXD9843AR	
IC110	6-707-939-01	IC CXD9843AR	
IC301	6-705-720-01	IC RC4580IDR	
IC303	6-702-300-01	IC TK11118CSCL-G	
IC305	8-759-649-50	IC SN74AHC1GU04DCKR	
IC501	6-707-608-01	IC PCM1803DBR	
IC504	6-707-095-01	IC BH2210FV-E2	
IC505	8-759-825-15	IC LC89056W-E	
IC506	6-707-754-01	IC CXD9862R	
IC507	6-704-037-01	IC IC61LV6416-15TG	
IC508	6-707-485-01	IC NJM2885DL1-18 (TE2)	
IC509	6-805-474-01	IC M30622MGP-A14FPU0	
IC510	6-707-095-01	IC BH2210FV-E2	
IC511	6-701-680-01	IC PST3629NR	
IC514	8-759-549-07	IC SN74LV157APWR	
IC515	6-703-550-01	IC TA7809LS	
IC516	6-703-547-01	IC TA7805LS	
IC517	8-759-649-50	IC SN74AHC1GU04DCKR	
⚠IC901	6-707-741-01	IC STR-F6138-LF1352	
⚠IC921	6-707-740-01	IC STR-V153	
IC931	8-759-648-34	IC TA76431AS (TPE6)	
IC941	6-707-746-01	IC SI-3120KM-TL	
IC942	6-707-745-10	IC SI-3050KM-TL	
IC943	6-707-744-01	IC SI-3033KM-TL	
IC951	6-707-743-01	IC TA76L431S (TPE6, Q)	
		< JACK >	
J201	1-780-202-11	TERMINAL BOARD (SP) (4P) (SPEAKER)	
J202	1-780-203-11	TERMINAL BOARD (SP) (2P) (SPEAKER)	

Ref. No.	Part No.	Description	Remark
		< COIL >	
L101	1-457-078-11	AIR-CORE COIL	
L102	1-457-078-11	AIR-CORE COIL	
L103	1-457-078-11	AIR-CORE COIL	
L104	1-457-078-11	AIR-CORE COIL	
L105	1-457-078-11	AIR-CORE COIL	
L106	1-457-078-11	AIR-CORE COIL	
L107	1-414-398-11	INDUCTOR 10uH	
L111	1-457-077-11	AIR-CORE COIL	
L112	1-457-077-11	AIR-CORE COIL	
L113	1-457-077-11	AIR-CORE COIL	
L114	1-457-077-11	AIR-CORE COIL	
L115	1-457-077-11	AIR-CORE COIL	
L116	1-457-077-11	AIR-CORE COIL	
L121	1-456-680-11	INDUCTOR 10uH	
L122	1-456-680-11	INDUCTOR 10uH	
L123	1-456-680-11	INDUCTOR 10uH	
L124	1-456-680-11	INDUCTOR 10uH	
L125	1-456-680-11	INDUCTOR 10uH	
L126	1-456-680-11	INDUCTOR 10uH	
L127	1-456-680-11	INDUCTOR 10uH	
L131	1-456-680-11	INDUCTOR 10uH	
L132	1-456-680-11	INDUCTOR 10uH	
L133	1-456-680-11	INDUCTOR 10uH	
L134	1-456-680-11	INDUCTOR 10uH	
L135	1-456-680-11	INDUCTOR 10uH	
L136	1-456-680-11	INDUCTOR 10uH	
L137	1-456-680-11	INDUCTOR 10uH	
L301	1-414-754-11	INDUCTOR 10uH	
L302	1-412-939-11	INDUCTOR 1uH	
L303	1-469-527-91	INDUCTOR 47uH	
L501	1-414-754-11	INDUCTOR 10uH	
L502	1-414-754-11	INDUCTOR 10uH	
L503	1-216-295-91	SHORT CHIP 0	
L504	1-216-295-91	SHORT CHIP 0	
L931	1-457-058-11	INDUCTOR 10.8uH	
L941	1-414-398-11	INDUCTOR 10uH	
L942	1-414-398-11	INDUCTOR 10uH	
L945	1-414-398-11	INDUCTOR 10uH	
L947	1-414-398-11	INDUCTOR 10uH	
L948	1-414-398-11	INDUCTOR 10uH	
L951	1-414-398-11	INDUCTOR 10uH	
		< LINE FILTER >	
⚠LF901	1-457-054-11	LINE FILTER COIL	
		< IC >	
⚠PC901	6-600-438-01	IC TLP421F (D4-GR)	
⚠PC902	6-600-438-01	IC TLP421F (D4-GR)	
⚠PC903	6-600-438-01	IC TLP421F (D4-GR)	
		< TRANSISTOR >	
Q101	8-729-600-22	TRANSISTOR 2SA1235-F	
Q102	8-729-600-22	TRANSISTOR 2SA1235-F	
Q103	8-729-600-22	TRANSISTOR 2SA1235-F	
Q104	8-729-600-22	TRANSISTOR 2SA1235-F	
Q105	8-729-600-22	TRANSISTOR 2SA1235-F	

Ref. No.	Part No.	Description			Remark
Q106	8-729-600-22	TRANSISTOR	2SA1235-F		
Q107	8-729-600-22	TRANSISTOR	2SA1235-F		
Q108	8-729-600-22	TRANSISTOR	2SA1235-F		
Q109	8-729-600-22	TRANSISTOR	2SA1235-F		
Q110	8-729-600-22	TRANSISTOR	2SA1235-F		
Q111	8-729-600-22	TRANSISTOR	2SA1235-F		
Q112	8-729-600-22	TRANSISTOR	2SA1235-F		
Q301	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q302	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q303	6-550-702-01	TRANSISTOR	2SC3243-TP-E		
Q304	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q506	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q507	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q901	8-729-140-04	TRANSISTOR	2SB1116A-L		
Q921	8-729-142-51	TRANSISTOR	2SD1616A-TP-LK		
Q943	1-801-806-11	TRANSISTOR	DTC144EKA		
Q945	6-550-718-01	TRANSISTOR	RSR025N03TL		
Q947	1-801-806-11	TRANSISTOR	DTC144EKA		
		< RESISTOR >			
R108	1-216-837-11	METAL CHIP	22K	5%	1/10W
R109	1-216-837-11	METAL CHIP	22K	5%	1/10W
R110	1-216-837-11	METAL CHIP	22K	5%	1/10W
R111	1-216-837-11	METAL CHIP	22K	5%	1/10W
R112	1-216-837-11	METAL CHIP	22K	5%	1/10W
R113	1-216-837-11	METAL CHIP	22K	5%	1/10W
R114	1-216-837-11	METAL CHIP	22K	5%	1/10W
R115	1-216-837-11	METAL CHIP	22K	5%	1/10W
R116	1-216-837-11	METAL CHIP	22K	5%	1/10W
R117	1-216-837-11	METAL CHIP	22K	5%	1/10W
R118	1-216-837-11	METAL CHIP	22K	5%	1/10W
R119	1-216-837-11	METAL CHIP	22K	5%	1/10W
R120	1-216-837-11	METAL CHIP	22K	5%	1/10W
R128	1-216-837-11	METAL CHIP	22K	5%	1/10W
R131	1-216-864-11	SHORT CHIP	0		
R132	1-216-864-11	SHORT CHIP	0		
R133	1-216-864-11	SHORT CHIP	0		
R134	1-216-864-11	SHORT CHIP	0		
R135	1-216-864-11	SHORT CHIP	0		
R136	1-216-864-11	SHORT CHIP	0		
R137	1-216-864-11	SHORT CHIP	0		
R139	1-216-864-11	SHORT CHIP	0		
R141	1-216-864-11	SHORT CHIP	0		
R142	1-216-864-11	SHORT CHIP	0		
R143	1-216-864-11	SHORT CHIP	0		
R144	1-216-864-11	SHORT CHIP	0		
R145	1-216-864-11	SHORT CHIP	0		
R146	1-216-864-11	SHORT CHIP	0		
R147	1-216-864-11	SHORT CHIP	0		
R151	1-216-864-11	SHORT CHIP	0		
R152	1-216-864-11	SHORT CHIP	0		
R153	1-216-864-11	SHORT CHIP	0		
R154	1-216-864-11	SHORT CHIP	0		
R155	1-216-864-11	SHORT CHIP	0		
R156	1-216-864-11	SHORT CHIP	0		
R157	1-216-864-11	SHORT CHIP	0		
R161	1-216-864-11	SHORT CHIP	0		
R162	1-216-864-11	SHORT CHIP	0		
R163	1-216-864-11	SHORT CHIP	0		
R164	1-216-864-11	SHORT CHIP	0		
R165	1-216-864-11	SHORT CHIP	0		
R166	1-216-864-11	SHORT CHIP	0		
R167	1-216-864-11	SHORT CHIP	0		
R171	1-216-864-11	SHORT CHIP	0		
R172	1-216-864-11	SHORT CHIP	0		
R173	1-216-864-11	SHORT CHIP	0		
R174	1-216-864-11	SHORT CHIP	0		
R175	1-216-864-11	SHORT CHIP	0		
R176	1-216-864-11	SHORT CHIP	0		
R177	1-216-864-11	SHORT CHIP	0		
R191	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R192	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R193	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R194	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R195	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R196	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R197	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R201	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R202	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R203	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R204	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R205	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R206	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R207	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R211	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R212	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R213	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R214	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R215	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R216	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R217	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R221	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R222	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R223	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R224	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R225	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R226	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R227	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R241	1-216-809-11	METAL CHIP	100	5%	1/10W
R242	1-216-809-11	METAL CHIP	100	5%	1/10W
R243	1-216-809-11	METAL CHIP	100	5%	1/10W
R244	1-216-809-11	METAL CHIP	100	5%	1/10W
R245	1-216-809-11	METAL CHIP	100	5%	1/10W
R246	1-216-809-11	METAL CHIP	100	5%	1/10W
R247	1-216-809-11	METAL CHIP	100	5%	1/10W
R300	1-216-809-11	METAL CHIP	100	5%	1/10W
R302	1-216-809-11	METAL CHIP	100	5%	1/10W
R303	1-216-809-11	METAL CHIP	100	5%	1/10W
R304	1-216-809-11	METAL CHIP	100	5%	1/10W
R305	1-216-809-11	METAL CHIP	100	5%	1/10W
R306	1-216-809-11	METAL CHIP	100	5%	1/10W
R308	1-216-809-11	METAL CHIP	100	5%	1/10W
R309	1-216-809-11	METAL CHIP	100	5%	1/10W
R310	1-216-809-11	METAL CHIP	100	5%	1/10W
R311	1-216-809-11	METAL CHIP	100	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R312	1-216-809-11	METAL CHIP	100	5%	1/10W
R313	1-216-864-11	SHORT CHIP	0		
R314	1-216-809-11	METAL CHIP	100	5%	1/10W
R315	1-216-809-11	METAL CHIP	100	5%	1/10W
R316	1-216-817-11	METAL CHIP	470	5%	1/10W
R317	1-216-817-11	METAL CHIP	470	5%	1/10W
R318	1-216-817-11	METAL CHIP	470	5%	1/10W
R319	1-216-833-11	METAL CHIP	10K	5%	1/10W
R320	1-216-864-11	SHORT CHIP	0		
R321	1-216-864-11	SHORT CHIP	0		
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R323	1-216-864-11	SHORT CHIP	0		
R324	1-216-864-11	SHORT CHIP	0		
R325	1-216-864-11	SHORT CHIP	0		
R326	1-216-864-11	SHORT CHIP	0		
R327	1-216-864-11	SHORT CHIP	0		
R328	1-216-864-11	SHORT CHIP	0		
R329	1-216-864-11	SHORT CHIP	0		
R330	1-216-837-11	METAL CHIP	22K	5%	1/10W
R331	1-216-837-11	METAL CHIP	22K	5%	1/10W
R332	1-216-837-11	METAL CHIP	22K	5%	1/10W
R333	1-216-837-11	METAL CHIP	22K	5%	1/10W
R334	1-216-837-11	METAL CHIP	22K	5%	1/10W
R335	1-216-837-11	METAL CHIP	22K	5%	1/10W
R336	1-216-837-11	METAL CHIP	22K	5%	1/10W
R337	1-216-837-11	METAL CHIP	22K	5%	1/10W
R338	1-216-837-11	METAL CHIP	22K	5%	1/10W
R339	1-216-837-11	METAL CHIP	22K	5%	1/10W
R340	1-216-839-11	METAL CHIP	33K	5%	1/10W
R341	1-216-839-11	METAL CHIP	33K	5%	1/10W
R342	1-216-864-11	SHORT CHIP	0		
R343	1-216-864-11	SHORT CHIP	0		
R344	1-216-817-11	METAL CHIP	470	5%	1/10W
R345	1-216-833-11	METAL CHIP	10K	5%	1/10W
R346	1-216-817-11	METAL CHIP	470	5%	1/10W
R347	1-216-833-11	METAL CHIP	10K	5%	1/10W
R348	1-216-817-11	METAL CHIP	470	5%	1/10W
R349	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R350	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R351	1-216-809-11	METAL CHIP	100	5%	1/10W
R353	1-216-809-11	METAL CHIP	100	5%	1/10W
R354	1-216-809-11	METAL CHIP	100	5%	1/10W
R355	1-216-809-11	METAL CHIP	100	5%	1/10W
R356	1-216-803-11	METAL CHIP	33	5%	1/10W
R357	1-216-803-11	METAL CHIP	33	5%	1/10W
R358	1-216-803-11	METAL CHIP	33	5%	1/10W
R361	1-216-845-11	METAL CHIP	100K	5%	1/10W
R362	1-216-845-11	METAL CHIP	100K	5%	1/10W
R363	1-216-845-11	METAL CHIP	100K	5%	1/10W
R364	1-216-845-11	METAL CHIP	100K	5%	1/10W
R365	1-216-845-11	METAL CHIP	100K	5%	1/10W
R366	1-216-845-11	METAL CHIP	100K	5%	1/10W
R371	1-216-818-11	METAL CHIP	560	5%	1/10W
R372	1-216-818-11	METAL CHIP	560	5%	1/10W
R373	1-216-818-11	METAL CHIP	560	5%	1/10W
R374	1-216-818-11	METAL CHIP	560	5%	1/10W
R375	1-216-818-11	METAL CHIP	560	5%	1/10W
R376	1-216-818-11	METAL CHIP	560	5%	1/10W
R377	1-216-818-11	METAL CHIP	560	5%	1/10W
R378	1-216-818-11	METAL CHIP	560	5%	1/10W
R379	1-216-818-11	METAL CHIP	560	5%	1/10W
R380	1-216-818-11	METAL CHIP	560	5%	1/10W
R381	1-216-818-11	METAL CHIP	560	5%	1/10W
R382	1-216-818-11	METAL CHIP	560	5%	1/10W
R383	1-216-818-11	METAL CHIP	560	5%	1/10W
R384	1-216-818-11	METAL CHIP	560	5%	1/10W
R393	1-216-801-11	METAL CHIP	22	5%	1/10W
R394	1-216-857-11	METAL CHIP	1M	5%	1/10W
R395	1-216-845-11	METAL CHIP	100K	5%	1/10W
R396	1-216-809-11	METAL CHIP	100	5%	1/10W
R400	1-216-845-11	METAL CHIP	100K	5%	1/10W
R401	1-216-845-11	METAL CHIP	100K	5%	1/10W
R402	1-216-845-11	METAL CHIP	100K	5%	1/10W
R403	1-216-845-11	METAL CHIP	100K	5%	1/10W
R404	1-216-845-11	METAL CHIP	100K	5%	1/10W
R405	1-216-845-11	METAL CHIP	100K	5%	1/10W
R406	1-216-845-11	METAL CHIP	100K	5%	1/10W
R407	1-216-845-11	METAL CHIP	100K	5%	1/10W
R408	1-216-845-11	METAL CHIP	100K	5%	1/10W
R409	1-216-845-11	METAL CHIP	100K	5%	1/10W
R410	1-216-845-11	METAL CHIP	100K	5%	1/10W
R411	1-216-845-11	METAL CHIP	100K	5%	1/10W
R412	1-216-845-11	METAL CHIP	100K	5%	1/10W
R424	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R426	1-216-833-11	METAL CHIP	10K	5%	1/10W
R427	1-216-833-11	METAL CHIP	10K	5%	1/10W
R428	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R429	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R430	1-216-833-11	METAL CHIP	10K	5%	1/10W
R431	1-216-845-11	METAL CHIP	100K	5%	1/10W
R450	1-216-833-11	METAL CHIP	10K	5%	1/10W
R451	1-216-833-11	METAL CHIP	10K	5%	1/10W
R452	1-216-833-11	METAL CHIP	10K	5%	1/10W
R453	1-216-833-11	METAL CHIP	10K	5%	1/10W
R456	1-216-833-11	METAL CHIP	10K	5%	1/10W
R457	1-216-833-11	METAL CHIP	10K	5%	1/10W
R458	1-216-833-11	METAL CHIP	10K	5%	1/10W
R459	1-216-833-11	METAL CHIP	10K	5%	1/10W
R460	1-216-833-11	METAL CHIP	10K	5%	1/10W
R461	1-216-833-11	METAL CHIP	10K	5%	1/10W
R462	1-216-833-11	METAL CHIP	10K	5%	1/10W
R463	1-216-833-11	METAL CHIP	10K	5%	1/10W
R464	1-216-833-11	METAL CHIP	10K	5%	1/10W
R468	1-216-864-11	SHORT CHIP	0		
R469	1-216-864-11	SHORT CHIP	0		
R472	1-216-864-11	SHORT CHIP	0		
R473	1-216-864-11	SHORT CHIP	0		
R474	1-216-864-11	SHORT CHIP	0		
R475	1-216-864-11	SHORT CHIP	0		
R478	1-216-864-11	SHORT CHIP	0		
R479	1-216-864-11	SHORT CHIP	0		
R480	1-216-864-11	SHORT CHIP	0		
R481	1-216-833-11	METAL CHIP	10K	5%	1/10W
R482	1-216-833-11	METAL CHIP	10K	5%	1/10W
R483	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R484	1-216-833-11	METAL CHIP	10K	5%	1/10W
R487	1-216-833-11	METAL CHIP	10K	5%	1/10W
R488	1-216-833-11	METAL CHIP	10K	5%	1/10W
R489	1-216-833-11	METAL CHIP	10K	5%	1/10W
R490	1-216-833-11	METAL CHIP	10K	5%	1/10W
R491	1-216-833-11	METAL CHIP	10K	5%	1/10W
R492	1-216-833-11	METAL CHIP	10K	5%	1/10W
R493	1-216-833-11	METAL CHIP	10K	5%	1/10W
R502	1-216-864-11	SHORT CHIP	0		
R504	1-216-809-11	METAL CHIP	100	5%	1/10W
R505	1-216-809-11	METAL CHIP	100	5%	1/10W
R506	1-216-809-11	METAL CHIP	100	5%	1/10W
R507	1-216-809-11	METAL CHIP	100	5%	1/10W
R508	1-216-809-11	METAL CHIP	100	5%	1/10W
R510	1-216-809-11	METAL CHIP	100	5%	1/10W
R511	1-216-809-11	METAL CHIP	100	5%	1/10W
R512	1-216-809-11	METAL CHIP	100	5%	1/10W
R514	1-216-821-11	METAL CHIP	1K	5%	1/10W
R515	1-216-809-11	METAL CHIP	100	5%	1/10W
R516	1-216-809-11	METAL CHIP	100	5%	1/10W
R517	1-216-809-11	METAL CHIP	100	5%	1/10W
R518	1-216-809-11	METAL CHIP	100	5%	1/10W
R519	1-216-809-11	METAL CHIP	100	5%	1/10W
R520	1-216-809-11	METAL CHIP	100	5%	1/10W
R521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R522	1-216-809-11	METAL CHIP	100	5%	1/10W
R525	1-216-809-11	METAL CHIP	100	5%	1/10W
R526	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R527	1-216-809-11	METAL CHIP	100	5%	1/10W
R528	1-216-809-11	METAL CHIP	100	5%	1/10W
R529	1-216-809-11	METAL CHIP	100	5%	1/10W
R530	1-216-809-11	METAL CHIP	100	5%	1/10W
R531	1-216-857-11	METAL CHIP	1M	5%	1/10W
R532	1-216-821-11	METAL CHIP	1K	5%	1/10W
R533	1-216-809-11	METAL CHIP	100	5%	1/10W
R534	1-216-809-11	METAL CHIP	100	5%	1/10W
R537	1-216-809-11	METAL CHIP	100	5%	1/10W
R538	1-216-295-91	SHORT CHIP	0		
R540	1-216-809-11	METAL CHIP	100	5%	1/10W
R541	1-216-809-11	METAL CHIP	100	5%	1/10W
R542	1-216-809-11	METAL CHIP	100	5%	1/10W
R543	1-216-809-11	METAL CHIP	100	5%	1/10W
R544	1-216-809-11	METAL CHIP	100	5%	1/10W
R545	1-216-809-11	METAL CHIP	100	5%	1/10W
R546	1-216-809-11	METAL CHIP	100	5%	1/10W
R547	1-216-809-11	METAL CHIP	100	5%	1/10W
R548	1-216-809-11	METAL CHIP	100	5%	1/10W
R549	1-216-809-11	METAL CHIP	100	5%	1/10W
R550	1-216-864-11	SHORT CHIP	0		
R551	1-216-821-11	METAL CHIP	1K	5%	1/10W
R552	1-216-809-11	METAL CHIP	100	5%	1/10W
R553	1-216-809-11	METAL CHIP	100	5%	1/10W
R554	1-216-809-11	METAL CHIP	100	5%	1/10W
R555	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R556	1-216-809-11	METAL CHIP	100	5%	1/10W
R557	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R558	1-216-839-11	METAL CHIP	33K	5%	1/10W
R559	1-216-821-11	METAL CHIP	1K	5%	1/10W
R560	1-216-809-11	METAL CHIP	100	5%	1/10W
R561	1-216-809-11	METAL CHIP	100	5%	1/10W
R563	1-216-809-11	METAL CHIP	100	5%	1/10W
R564	1-216-809-11	METAL CHIP	100	5%	1/10W
R565	1-216-809-11	METAL CHIP	100	5%	1/10W
R566	1-216-833-11	METAL CHIP	10K	5%	1/10W
R567	1-216-809-11	METAL CHIP	100	5%	1/10W
R568	1-216-809-11	METAL CHIP	100	5%	1/10W
R569	1-216-857-11	METAL CHIP	1M	5%	1/10W
R572	1-216-809-11	METAL CHIP	100	5%	1/10W
R573	1-216-809-11	METAL CHIP	100	5%	1/10W
R574	1-216-809-11	METAL CHIP	100	5%	1/10W
R575	1-216-809-11	METAL CHIP	100	5%	1/10W
R577	1-216-841-11	METAL CHIP	47K	5%	1/10W
R578	1-216-809-11	METAL CHIP	100	5%	1/10W
R580	1-216-833-11	METAL CHIP	10K	5%	1/10W
R581	1-216-809-11	METAL CHIP	100	5%	1/10W
R582	1-216-809-11	METAL CHIP	100	5%	1/10W
R583	1-216-809-11	METAL CHIP	100	5%	1/10W
R585	1-216-809-11	METAL CHIP	100	5%	1/10W
R586	1-216-809-11	METAL CHIP	100	5%	1/10W
R587	1-216-809-11	METAL CHIP	100	5%	1/10W
R588	1-216-809-11	METAL CHIP	100	5%	1/10W
R589	1-216-821-11	METAL CHIP	1K	5%	1/10W
R590	1-216-809-11	METAL CHIP	100	5%	1/10W
R591	1-216-809-11	METAL CHIP	100	5%	1/10W
R594	1-216-809-11	METAL CHIP	100	5%	1/10W
R595	1-216-809-11	METAL CHIP	100	5%	1/10W
R596	1-216-841-11	METAL CHIP	47K	5%	1/10W
R597	1-216-809-11	METAL CHIP	100	5%	1/10W
R598	1-216-809-11	METAL CHIP	100	5%	1/10W
R599	1-216-809-11	METAL CHIP	100	5%	1/10W
R600	1-216-809-11	METAL CHIP	100	5%	1/10W
R601	1-216-809-11	METAL CHIP	100	5%	1/10W
R602	1-216-809-11	METAL CHIP	100	5%	1/10W
R603	1-216-809-11	METAL CHIP	100	5%	1/10W
R604	1-216-817-11	METAL CHIP	470	5%	1/10W
R605	1-216-817-11	METAL CHIP	470	5%	1/10W
R606	1-216-819-11	METAL CHIP	680	5%	1/10W
R607	1-216-819-11	METAL CHIP	680	5%	1/10W
R608	1-216-809-11	METAL CHIP	100	5%	1/10W
R609	1-216-864-11	SHORT CHIP	0		
R611	1-216-833-11	METAL CHIP	10K	5%	1/10W
R612	1-216-833-11	METAL CHIP	10K	5%	1/10W
R613	1-216-864-11	SHORT CHIP	0		
R614	1-216-833-11	METAL CHIP	10K	5%	1/10W
R615	1-216-817-11	METAL CHIP	470	5%	1/10W
R616	1-216-833-11	METAL CHIP	10K	5%	1/10W
R617	1-216-864-11	SHORT CHIP	0		
R618	1-216-864-11	SHORT CHIP	0		
R620	1-216-809-11	METAL CHIP	100	5%	1/10W
R622	1-216-833-11	METAL CHIP	10K	5%	1/10W
R624	1-216-833-11	METAL CHIP	10K	5%	1/10W
R627	1-216-809-11	METAL CHIP	100	5%	1/10W
R628	1-216-821-11	METAL CHIP	1K	5%	1/10W
R629	1-216-295-91	SHORT CHIP	0		
R636	1-216-864-11	SHORT CHIP	0		

MAIN

Ref. No.	Part No.	Description			Remark
R637	1-216-864-11	SHORT CHIP	0		
R638	1-216-809-11	METAL CHIP	100	5%	1/10W
R649	1-216-809-11	METAL CHIP	100	5%	1/10W
R650	1-216-864-11	SHORT CHIP	0		
R652	1-216-809-11	METAL CHIP	100	5%	1/10W
R653	1-216-809-11	METAL CHIP	100	5%	1/10W
R654	1-216-809-11	METAL CHIP	100	5%	1/10W
R655	1-216-809-11	METAL CHIP	100	5%	1/10W
R657	1-216-841-11	METAL CHIP	47K	5%	1/10W
R659	1-216-845-11	METAL CHIP	100K	5%	1/10W
R660	1-216-864-11	SHORT CHIP	0		
R662	1-216-841-11	METAL CHIP	47K	5%	1/10W
R664	1-216-813-11	METAL CHIP	220	5%	1/10W
R665	1-216-813-11	METAL CHIP	220	5%	1/10W
R666	1-216-813-11	METAL CHIP	220	5%	1/10W
R670	1-216-809-11	METAL CHIP	100	5%	1/10W
R672	1-216-809-11	METAL CHIP	100	5%	1/10W
R673	1-216-833-11	METAL CHIP	10K	5%	1/10W
R674	1-216-864-11	SHORT CHIP	0		
R675	1-216-809-11	METAL CHIP	100	5%	1/10W
R676	1-216-833-11	METAL CHIP	10K	5%	1/10W
R678	1-216-864-11	SHORT CHIP	0		
R679	1-216-809-11	METAL CHIP	100	5%	1/10W
R680	1-216-809-11	METAL CHIP	100	5%	1/10W
R682	1-216-813-11	METAL CHIP	220	5%	1/10W
R683	1-216-809-11	METAL CHIP	100	5%	1/10W
R684	1-216-864-11	SHORT CHIP	0		
R686	1-216-809-11	METAL CHIP	100	5%	1/10W
R691	1-216-809-11	METAL CHIP	100	5%	1/10W
R692	1-216-809-11	METAL CHIP	100	5%	1/10W
R693	1-216-809-11	METAL CHIP	100	5%	1/10W
R694	1-216-809-11	METAL CHIP	100	5%	1/10W
R695	1-216-809-11	METAL CHIP	100	5%	1/10W
R696	1-216-809-11	METAL CHIP	100	5%	1/10W
R697	1-216-809-11	METAL CHIP	100	5%	1/10W
R701	1-216-809-11	METAL CHIP	100	5%	1/10W
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W
R703	1-216-821-11	METAL CHIP	1K	5%	1/10W
R704	1-216-821-11	METAL CHIP	1K	5%	1/10W
R705	1-216-833-11	METAL CHIP	10K	5%	1/10W
R706	1-216-809-11	METAL CHIP	100	5%	1/10W
R707	1-216-809-11	METAL CHIP	100	5%	1/10W
R709	1-216-833-11	METAL CHIP	10K	5%	1/10W
R713	1-216-864-11	SHORT CHIP	0		
R717	1-216-833-11	METAL CHIP	10K	5%	1/10W
R718	1-216-833-11	METAL CHIP	10K	5%	1/10W
R719	1-216-833-11	METAL CHIP	10K	5%	1/10W
R721	1-216-833-11	METAL CHIP	10K	5%	1/10W
R722	1-216-841-11	METAL CHIP	47K	5%	1/10W
R723	1-216-809-11	METAL CHIP	100	5%	1/10W
R724	1-216-809-11	METAL CHIP	100	5%	1/10W
R725	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R726	1-216-821-11	METAL CHIP	1K	5%	1/10W
R727	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R728	1-216-821-11	METAL CHIP	1K	5%	1/10W
R729	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R730	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R731	1-216-809-11	METAL CHIP	100	5%	1/10W
R739	1-216-841-11	METAL CHIP	47K	5%	1/10W
R741	1-216-841-11	METAL CHIP	47K	5%	1/10W
R743	1-216-833-11	METAL CHIP	10K	5%	1/10W
R746	1-216-841-11	METAL CHIP	47K	5%	1/10W
R748	1-216-821-11	METAL CHIP	1K	5%	1/10W
R749	1-216-821-11	METAL CHIP	1K	5%	1/10W
R750	1-216-821-11	METAL CHIP	1K	5%	1/10W
R755	1-216-821-11	METAL CHIP	1K	5%	1/10W
R756	1-216-821-11	METAL CHIP	1K	5%	1/10W
R760	1-216-809-11	METAL CHIP	100	5%	1/10W
R761	1-216-809-11	METAL CHIP	100	5%	1/10W
R762	1-216-809-11	METAL CHIP	100	5%	1/10W
R763	1-216-809-11	METAL CHIP	100	5%	1/10W
R764	1-216-809-11	METAL CHIP	100	5%	1/10W
R765	1-216-809-11	METAL CHIP	100	5%	1/10W
R774	1-216-821-11	METAL CHIP	1K	5%	1/10W
R775	1-216-841-11	METAL CHIP	47K	5%	1/10W
R789	1-216-809-11	METAL CHIP	100	5%	1/10W
R790	1-216-809-11	METAL CHIP	100	5%	1/10W
R791	1-216-809-11	METAL CHIP	100	5%	1/10W
R792	1-216-837-11	METAL CHIP	22K	5%	1/10W
R793	1-216-841-11	METAL CHIP	47K	5%	1/10W
⚠R902	1-219-237-11	SOLID	3.3M	20%	1/2W
⚠R903	1-215-926-00	METAL OXIDE	33K	5%	3W
⚠R904	1-215-926-00	METAL OXIDE	33K	5%	3W
⚠R905	1-216-797-11	METAL CHIP	10	5%	1/10W
⚠R906	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
⚠R907	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R908	1-260-105-11	CARBON	3.3K	5%	1/2W
⚠R909	1-216-845-11	METAL CHIP	100K	5%	1/10W
⚠R910	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
⚠R911	1-216-813-11	METAL CHIP	220	5%	1/10W
⚠R912	1-216-361-61	METAL OXIDE	0.22	5%	2W
⚠R913	1-216-361-61	METAL OXIDE	0.22	5%	2W
⚠R914	1-243-665-11	METAL	0.05	5%	5W
⚠R918	1-216-864-11	SHORT CHIP	0		
⚠R919	1-216-836-11	METAL CHIP	18K	5%	1/10W
⚠R920	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠R921	1-215-904-61	METAL OXIDE	100K	5%	2W
⚠R922	1-216-793-11	METAL CHIP	4.7	5%	1/10W
⚠R923	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R925	1-216-797-11	METAL CHIP	10	5%	1/10W
⚠R926	1-216-855-11	METAL CHIP	680K	5%	1/10W
⚠R927	1-216-348-00	METAL OXIDE	0.82	5%	1W
⚠R929	1-249-478-11	CARBON	2.2	5%	1/2W
R931	1-218-869-11	METAL CHIP	8.2K	0.5%	1/10W
R932	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R933	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R934	1-216-821-11	METAL CHIP	1K	5%	1/10W
R935	1-216-821-11	METAL CHIP	1K	5%	1/10W
R936	1-216-853-11	METAL CHIP	470K	5%	1/10W
R937	1-216-833-11	METAL CHIP	10K	5%	1/10W
R938	1-216-821-11	METAL CHIP	1K	5%	1/10W
R939	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R940	1-216-833-11	METAL CHIP	10K	5%	1/10W
R941	1-216-864-11	SHORT CHIP	0		
R943	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R946	1-216-811-11	METAL CHIP	150	5%	1/10W
R948	1-216-833-11	METAL CHIP	10K	5%	1/10W
R949	1-216-821-11	METAL CHIP	1K	5%	1/10W
R951	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R952	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R953	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R954	1-216-837-11	METAL CHIP	22K	5%	1/10W
R955	1-216-817-11	METAL CHIP	470	5%	1/10W
R956	1-216-821-11	METAL CHIP	1K	5%	1/10W
R957	1-216-841-11	METAL CHIP	47K	5%	1/10W
R958	1-216-821-11	METAL CHIP	1K	5%	1/10W
R965	1-216-864-11	SHORT CHIP	0		
		< COMPOSITION CIRCUIT BLOCK >			
RB501	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB502	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB503	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB504	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB505	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB506	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB507	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB901	1-236-908-11	RES, CHIP NETWORK	10K (3216)		
RB902	1-236-908-11	RES, CHIP NETWORK	10K (3216)		
RB903	1-236-908-11	RES, CHIP NETWORK	10K (3216)		
RB904	1-236-908-11	RES, CHIP NETWORK	10K (3216)		
RB905	1-233-411-11	RES, CHIP NETWORK	220 (3216)		
RB906	1-233-411-11	RES, CHIP NETWORK	220 (3216)		
RB907	1-233-411-11	RES, CHIP NETWORK	220 (3216)		
RB908	1-233-411-11	RES, CHIP NETWORK	220 (3216)		
		< TRANSFORMER >			
⚠T901	1-443-649-11	TRANSFORMER, CONVERTER			
⚠T902	1-443-650-11	TRANSFORMER, CONVERTER			
		< THERMISTOR >			
⚠TH901	1-805-841-21	THERMISTOR, NTC 3.0			
		< VARISTOR >			
⚠VDR901	1-805-482-11	VARISTOR			
		< VIBRATOR >			
X450	1-795-660-21	QUARTZ CRYSTAL UNIT (49.152MHz)			
X500	1-795-843-11	VIBRATOR, CRYSTAL (12.288MHz)			
X501	1-813-325-11	VIBRATOR, CRYSTAL (13.90MHz)			
X502	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			
**********					
★	A-1124-106-A	MIB01 BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C501	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C503	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C504	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C505	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C507	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C508	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C512	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C516	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C517	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C520	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C523	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C524	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C525	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C526	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C527	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C528	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C529	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C530	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C531	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C532	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C533	1-112-180-21	ELECT CHIP	150uF	20%	4V
C534	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C535	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C536	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C539	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C540	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C541	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C542	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C543	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C544	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C545	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C546	1-164-173-11	CERAMIC CHIP	0.0039uF	10%	50V
C547	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C548	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C549	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C550	1-164-733-11	CERAMIC CHIP	820PF	10%	50V
C551	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C552	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C553	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C554	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C555	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C556	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C557	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C558	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C559	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C560	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C561	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C562	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C563	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C564	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C565	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C566	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C601	1-128-993-21	ELECT CHIP	22uF	20%	10V
C602	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C603	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C604	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C605	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C606	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C607	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

★ Please refer to " NOTE OF HANDLING THE MIB01 BOARD (A-1124-106-A) " on the service note (Page 5) for handling of this board.

MIB01

Ref. No.	Part No.	Description			Remark
C608	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C609	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C610	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C611	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C612	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C613	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C614	1-128-993-21	ELECT CHIP	22uF	20%	10V
C615	1-128-993-21	ELECT CHIP	22uF	20%	10V
C616	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C617	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C618	1-124-779-00	ELECT CHIP	10uF	20%	16V
C619	1-124-779-00	ELECT CHIP	10uF	20%	16V
C620	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C621	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C622	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C623	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C624	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C625	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C626	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C627	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C628	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C629	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C631	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C637	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C638	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C641	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C5101	1-117-370-11	CERAMIC CHIP	10uF		10V
C5102	1-117-681-11	ELECT CHIP	100uF	20%	16V
C5103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5104	1-117-370-11	CERAMIC CHIP	10uF		10V
C5105	1-117-681-11	ELECT CHIP	100uF	20%	16V
C5106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5107	1-117-370-11	CERAMIC CHIP	10uF		10V
C5108	1-117-681-11	ELECT CHIP	100uF	20%	16V
C5109	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5204	1-216-864-11	SHORT CHIP	0		
C5501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5502	1-117-370-11	CERAMIC CHIP	10uF		10V
C5504	1-216-864-11	SHORT CHIP	0		
		< CONNECTOR >			
CN601	1-818-086-21	HDMI CONNECTOR			
CN5101	1-573-806-21	PIN, CONNECTOR (1.5MM) (SMD) 6P			
CN5201	1-779-330-21	CONNECTOR, FFC/FPC 12P			
CN5301	1-793-989-21	FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 13P			
CN5401	1-779-338-11	CONNECTOR, FFC/FPC 28P			
		< FERRITE BEAD >			
FB5101	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB5102	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB5103	1-469-324-21	FERRITE, EMI (SMD) (2012)			
		< FLUORESCENT INDICATOR >			
FL601	1-234-177-21	FILTER, CHIP EMI			
FL602	1-234-177-21	FILTER, CHIP EMI			
FL603	1-234-177-21	FILTER, CHIP EMI			
FL604	1-234-177-21	FILTER, CHIP EMI			
FL605	1-234-177-21	FILTER, CHIP EMI			

Ref. No.	Part No.	Description			Remark
FL5101	1-234-177-21	FILTER, CHIP EMI			
FL5102	1-234-177-21	FILTER, CHIP EMI			
FL5103	1-234-177-21	FILTER, CHIP EMI			
		< IC >			
IC111	6-550-008-01	TRANSISTOR UM6K1N-TN			
IC501	6-702-301-01	IC TK11125CSCL-G			
IC503	6-706-521-01	IC CXD9837R			
IC505	8-759-837-19	IC MM1562FFBE			
IC506	6-701-079-01	IC ADV7300AKST			
IC507	6-706-520-01	IC CXD9836R			
IC508	6-702-301-01	IC TK11125CSCL-G			
IC509	6-705-992-01	IC HY57V161610ETP-7			
IC601	6-805-614-01	IC MB89538APFM-G-663E1			
IC602	(Not supplied)	IC SII9030CTU			
IC603	6-703-046-01	IC SN74LVC1G08DCKR			
IC604	6-707-119-01	IC TK11218CMCL-G			
IC605	6-705-338-01	IC TK11250CMCL-G			
IC606	6-702-302-01	IC TK11133CSCL-G			
IC607	6-704-470-01	IC TK11233CMCL-G			
IC608	8-759-679-58	IC SN74AHCT541PWR			
IC5401	6-703-589-01	IC SN74LVC1G125DCKR			
		< LINE FILTER >			
* LF601	1-813-308-11	COMMON MODE CHOKE			
* LF602	1-813-308-11	COMMON MODE CHOKE			
* LF603	1-813-308-11	COMMON MODE CHOKE			
* LF604	1-813-308-11	COMMON MODE CHOKE			
		< TRANSISTOR >			
Q601	8-719-012-57	DIODE UZ-2.0BS-TP			
Q602	8-719-012-57	DIODE UZ-2.0BS-TP			
		< RESISTOR >			
R501	1-216-809-11	METAL CHIP	100	5%	1/10W
R504	1-216-809-11	METAL CHIP	100	5%	1/10W
R509	1-216-805-11	METAL CHIP	47	5%	1/10W
R515	1-216-864-11	SHORT CHIP	0		
R516	1-216-864-11	SHORT CHIP	0		
R526	1-216-820-11	METAL CHIP	820	5%	1/10W
R527	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R532	1-216-819-11	METAL CHIP	680	5%	1/10W
R533	1-216-833-11	METAL CHIP	10K	5%	1/10W
R534	1-216-809-11	METAL CHIP	100	5%	1/10W
R535	1-216-821-11	METAL CHIP	1K	5%	1/10W
R536	1-216-821-11	METAL CHIP	1K	5%	1/10W
R537	1-216-809-11	METAL CHIP	100	5%	1/10W
R538	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R539	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R540	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R541	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R542	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R543	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R551	1-216-864-11	SHORT CHIP	0		
R559	1-216-864-11	SHORT CHIP	0		
R602	1-216-864-11	SHORT CHIP	0		
R603	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R605	1-216-833-11	METAL CHIP	10K	5%	1/10W
R607	1-216-864-11	SHORT CHIP	0		
R608	1-216-864-11	SHORT CHIP	0		
R612	1-216-864-11	SHORT CHIP	0		
R615	1-216-821-11	METAL CHIP	1K	5%	1/10W
R617	1-216-821-11	METAL CHIP	1K	5%	1/10W
R624	1-216-821-11	METAL CHIP	1K	5%	1/10W
R625	1-216-805-11	METAL CHIP	47	5%	1/10W
R626	1-216-821-11	METAL CHIP	1K	5%	1/10W
R627	1-216-805-11	METAL CHIP	47	5%	1/10W
R628	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R629	1-216-821-11	METAL CHIP	1K	5%	1/10W
R630	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R631	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R632	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R633	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R638	1-216-813-11	METAL CHIP	220	5%	1/10W
R639	1-216-809-11	METAL CHIP	100	5%	1/10W
R640	1-216-813-11	METAL CHIP	220	5%	1/10W
R641	1-216-864-11	SHORT CHIP	0		
R648	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R654	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R655	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R659	1-216-864-11	SHORT CHIP	0		
R664	1-216-809-11	METAL CHIP	100	5%	1/10W
R665	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R666	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R667	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R668	1-216-864-11	SHORT CHIP	0		
R670	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R671	1-216-833-11	METAL CHIP	10K	5%	1/10W
R672	1-216-864-11	SHORT CHIP	0		
R673	1-216-809-11	METAL CHIP	100	5%	1/10W
R674	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R675	1-218-840-11	METAL CHIP	510	0.5%	1/10W
R677	1-216-864-11	SHORT CHIP	0		
R679	1-216-864-11	SHORT CHIP	0		
R681	1-216-864-11	SHORT CHIP	0		
R682	1-216-840-11	METAL CHIP	39K	5%	1/10W
R684	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R687	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R689	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R690	1-216-864-11	SHORT CHIP	0		
R691	1-216-864-11	SHORT CHIP	0		
R692	1-216-864-11	SHORT CHIP	0		
R693	1-216-864-11	SHORT CHIP	0		
R694	1-216-864-11	SHORT CHIP	0		
R696	1-216-864-11	SHORT CHIP	0		
R1607	1-216-864-11	SHORT CHIP	0		
R1610	1-216-864-11	SHORT CHIP	0		
R1616	1-216-864-11	SHORT CHIP	0		
R1617	1-216-864-11	SHORT CHIP	0		
R1618	1-216-864-11	SHORT CHIP	0		
R1621	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1623	1-216-864-11	SHORT CHIP	0		
R1633	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1634	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R5001	1-216-864-11	SHORT CHIP	0		
R5002	1-216-817-11	METAL CHIP	470	5%	1/10W
R5003	1-216-817-11	METAL CHIP	470	5%	1/10W
R5101	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5202	1-216-864-11	SHORT CHIP	0		
R5204	1-216-809-11	METAL CHIP	100	5%	1/10W
R5206	1-216-864-11	SHORT CHIP	0		
R5207	1-216-864-11	SHORT CHIP	0		
R5208	1-216-864-11	SHORT CHIP	0		
R5209	1-216-864-11	SHORT CHIP	0		
R5210	1-216-864-11	SHORT CHIP	0		
R5211	1-216-864-11	SHORT CHIP	0		
R5303	1-216-864-11	SHORT CHIP	0		
R5305	1-216-864-11	SHORT CHIP	0		
R5307	1-216-864-11	SHORT CHIP	0		
R5309	1-216-864-11	SHORT CHIP	0		
R5311	1-216-864-11	SHORT CHIP	0		
R5313	1-216-864-11	SHORT CHIP	0		
R5402	1-216-864-11	SHORT CHIP	0		
R5403	1-216-864-11	SHORT CHIP	0		
R5404	1-216-864-11	SHORT CHIP	0		
R5405	1-216-864-11	SHORT CHIP	0		
R5406	1-216-864-11	SHORT CHIP	0		
R5407	1-216-864-11	SHORT CHIP	0		
R5408	1-216-864-11	SHORT CHIP	0		
R5409	1-216-864-11	SHORT CHIP	0		
R5411	1-216-864-11	SHORT CHIP	0		
R5412	1-216-864-11	SHORT CHIP	0		
R5414	1-216-864-11	SHORT CHIP	0		
R5415	1-216-864-11	SHORT CHIP	0		
R5416	1-216-864-11	SHORT CHIP	0		
R5417	1-216-864-11	SHORT CHIP	0		
R5418	1-216-864-11	SHORT CHIP	0		
R5419	1-216-864-11	SHORT CHIP	0		
R5420	1-216-864-11	SHORT CHIP	0		
R5421	1-216-864-11	SHORT CHIP	0		
R5423	1-216-809-11	METAL CHIP	100	5%	1/10W
R5452	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5453	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5504	1-216-815-11	METAL CHIP	330	5%	1/10W
R5505	1-216-815-11	METAL CHIP	330	5%	1/10W
R5524	1-216-815-11	METAL CHIP	330	5%	1/10W
R5525	1-216-815-11	METAL CHIP	330	5%	1/10W
R5526	1-216-815-11	METAL CHIP	330	5%	1/10W
R5527	1-216-815-11	METAL CHIP	330	5%	1/10W
R5528	1-216-815-11	METAL CHIP	330	5%	1/10W
R5529	1-216-815-11	METAL CHIP	330	5%	1/10W
R5530	1-216-815-11	METAL CHIP	330	5%	1/10W
R5531	1-216-815-11	METAL CHIP	330	5%	1/10W
R5534	1-216-815-11	METAL CHIP	330	5%	1/10W
R5535	1-216-815-11	METAL CHIP	330	5%	1/10W
R5536	1-216-815-11	METAL CHIP	330	5%	1/10W
R5537	1-216-815-11	METAL CHIP	330	5%	1/10W
R5538	1-216-815-11	METAL CHIP	330	5%	1/10W
R5539	1-216-815-11	METAL CHIP	330	5%	1/10W
R5540	1-216-815-11	METAL CHIP	330	5%	1/10W
R5541	1-216-815-11	METAL CHIP	330	5%	1/10W

MIB01 **MIB01 POWER** **MODE MOTOR** **RELAY**

Ref. No.	Part No.	Description			Remark
R5544	1-216-864-11	SHORT CHIP	0		
R5545	1-216-864-11	SHORT CHIP	0		
R5546	1-216-864-11	SHORT CHIP	0		
R5547	1-216-864-11	SHORT CHIP	0		
R5548	1-216-864-11	SHORT CHIP	0		
R5549	1-216-864-11	SHORT CHIP	0		
R5550	1-216-864-11	SHORT CHIP	0		
R5551	1-216-864-11	SHORT CHIP	0		
		< COMPOSITION CIRCUIT BLOCK >			
RB5501	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB5502	1-234-795-21	RES, NETWORK 0X4 (2010)			
		< VARIABLE RESISTOR >			
RV501	1-223-583-41	RES, ADJ, CARBON (3 TYPE) 1K			
RV502	1-223-583-41	RES, ADJ, CARBON (3 TYPE) 1K			
		< VIBRATOR >			
X601	1-813-430-11	PIEZOELECTRIC OSCILLATOR (8MHz)			
**********					
		MIB01 POWER BOARD			
		**********			
		< CAPACITOR >			
C905	1-113-619-11	CERAMIC CHIP	0.47uF		10V
C906	1-126-969-11	ELECT	220uF	20%	50V
C907	1-128-949-31	ELECT	470uF	20%	16V
C908	1-104-658-91	ELECT	100uF	20%	10V
C909	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C910	1-104-658-91	ELECT	100uF	20%	10V
C911	1-104-658-91	ELECT	100uF	20%	10V
C912	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C913	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
		< CONNECTOR >			
CN9001	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
* CN9002	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< DIODE >			
D9021	6-500-258-01	DIODE RK16			
D9022	6-500-522-01	DIODE 10EDB40-TA1B2			
D9023	8-719-210-21	DIODE 11EQS04			
		< IC >			
IC901	6-700-850-01	IC SI-8050JD-TP			
IC902	6-707-568-01	IC TA48033F-TE16L			
		< COIL >			
L9021	1-456-468-11	INDUCTOR	100uH		
L9022	1-414-398-11	INDUCTOR	10uH		
L9023	1-414-398-11	INDUCTOR	10uH		
L9024	1-414-398-11	INDUCTOR	10uH		
		< RESISTOR >			
R902	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W
R903	1-211-991-11	METAL CHIP	82	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
		< TERMINAL BOARD >			
TK9001	1-537-770-21	TERMINAL BOARD, GROUND			
TK9002	1-537-770-21	TERMINAL BOARD, GROUND			
**********					
	1-686-724-13	MODE MOTOR BOARD			
		**********			
**********					
	A-4731-113-A	RELAY BOARD, COMPLETE (including ST ENCODER BOARD)			
		**********			
		< CAPACITOR >			
C711	1-126-795-11	ELECT	10uF	20%	50V
C751	1-164-159-21	CERAMIC	0.1uF		50V
C752	1-164-159-21	CERAMIC	0.1uF		50V
C753	1-164-159-21	CERAMIC	0.1uF		50V
C754	1-164-159-21	CERAMIC	0.1uF		50V
C755	1-164-159-21	CERAMIC	0.1uF		50V
C756	1-164-159-21	CERAMIC	0.1uF		50V
C758	1-164-159-21	CERAMIC	0.1uF		50V
C761	1-162-306-11	CERAMIC	0.01uF	20%	16V
C762	1-164-159-21	CERAMIC	0.1uF		50V
C763	1-164-159-21	CERAMIC	0.1uF		50V
C764	1-164-159-21	CERAMIC	0.1uF		50V
C765	1-164-159-21	CERAMIC	0.1uF		50V
C766	1-164-159-21	CERAMIC	0.1uF		50V
C767	1-164-159-21	CERAMIC	0.1uF		50V
C768	1-164-159-21	CERAMIC	0.1uF		50V
C769	1-164-159-21	CERAMIC	0.1uF		50V
C771	1-162-306-11	CERAMIC	0.01uF	20%	16V
C781	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< CONNECTOR >			
CN701	1-779-564-21	CONNECTOR, FFC (LIF (NON-ZIF)) 27P			
CN702	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			
CN703	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P			
* CN710	1-506-486-11	PIN, CONNECTOR 7P			
		< DIODE >			
D701	8-719-921-44	DIODE MTZJ-5.1C			
D711	8-719-109-92	DIODE RD6.2ESB1			
D721	8-719-982-11	DIODE MTZJ-4.3B			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
IC711	8-759-598-69	IC BA6956AN			
IC721	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q731	8-729-029-66	TRANSISTOR	DTC114ESA		
		< RESISTOR >			
R701	1-249-415-11	CARBON	680	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-415-11	CARBON	680	5%	1/4W
R712	1-247-807-31	CARBON	100	5%	1/4W

RELAY **ROLLER MOTOR** **SENSOR** **ST ENCODER** **STOCKER MOTOR**
SW(1) **SW(2)** **SW(3)** **SW(4)**

Ref. No.	Part No.	Description			Remark
R721	1-249-415-11	CARBON	680	5%	1/4W
R722	1-247-807-31	CARBON	100	5%	1/4W
R731	1-247-806-11	CARBON	91	5%	1/4W
R732	1-249-417-11	CARBON	1K	5%	1/4W
R733	1-249-429-11	CARBON	10K	5%	1/4W
R734	1-249-429-11	CARBON	10K	5%	1/4W
**********					
	1-686-726-13	ROLLER MOTOR BOARD			
		**********			
**********					
	1-686-723-13	SENSOR BOARD			
		**********			
		< IC >			
IC751	8-749-017-45	SENSOR, PHONT RPR-220C1N			
**********					
	A-4731-113-A	ST ENCODER BOARD, COMPLETE			
		(including RELAY BOARD)			
		**********			
**********					
	1-686-725-13	STOCKER MOTOR BOARD			
		**********			
**********					
	1-686-727-13	SW (1) BOARD			
		**********			
		< SWITCH >			
S711	1-786-382-21	SWITCH, PUSH (1 KEY)			
		(DISC INSERT (8/12cm))			
**********					
	1-686-728-13	SW (2) BOARD			
		**********			
		< SWITCH >			
S713	1-786-382-21	SWITCH, PUSH (1 KEY) (DISC IN (8/12cm))			
S714	1-786-382-21	SWITCH, PUSH (1 KEY) (DISC IN (8cm))			
**********					
	1-686-729-13	SW (3) BOARD			
		**********			
		< SWITCH >			
S715	1-786-382-21	SWITCH, PUSH (1 KEY) (DISC OUT)			
**********					
	1-686-730-13	SW (4) BOARD			
		**********			
		< SWITCH >			
S716	1-786-382-21	SWITCH, PUSH (1 KEY) (STOCKER IN/OUT)			
S717	1-786-382-21	SWITCH, PUSH (1 KEY) (DISC POSITION)			
S718	1-786-382-21	SWITCH, PUSH (1 KEY) (STOCKING)			
**********					

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
56	1-828-336-11	WIRE (FLAT TYPE) (15 CORE)	
102	1-828-952-11	WIRE (FLAT TYPE) (9 CORE)	
104	1-787-331-11	FAN, D.C.	
⚠106	1-783-531-91	CORD, POWER	
156	1-830-552-11	WIRE (FLAT TYPE) (24 CORE)	
158	1-828-382-11	WIRE (FLAT TYPE) (23 CORE)	
159	1-830-544-11	WIRE (FLAT TYPE) (28 CORE)	
162	1-830-576-11	WIRE (FLAT TYPE) (11CORE)	
163	1-828-361-11	WIRE (FLAT TYPE) (19 CORE)	
164	1-828-327-11	WIRE (FLAT TYPE) (13 CORE)	
165	1-828-194-11	WIRE (FLAT TYPE) (12 CORE)	
311	1-828-399-11	WIRE (FLAT TYPE) (27 CORE)	
⚠601	8-820-291-02	OPTICAL PICK-UP (KHM-310CAB/C2RP)	
⚠F901	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (8A/125V)	
M761	A-4735-953-A	MOTOR (STOCKER) ASSY (STOCKER)	
M771	A-4735-953-A	MOTOR (STOCKER) ASSY (MODE)	
M781	A-4735-953-A	MOTOR (STOCKER) ASSY (ROLLER)	
S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
S771	1-477-300-11	ENCODER, ROTARY (MODE)	

MEMO

HCD-FX80

SONY

US Model
Canadian Model

SERVICE MANUAL

Ver. 1.1 2005.11

SUPPLEMENT-1

Subject : Addition of ELECTRICAL ADJUSTMENT (DVD SECTION)

9-879-687-81

ELECTRICAL ADJSTMENT

DVD SECTION

When the base unit is replaced, perform the adjustment and the measurement as shown below in this order.

1) MIRROR TIME ADJUSTMENT (See page 23)
2) EXECUTING IOP MEASUREMENT (See page 25)

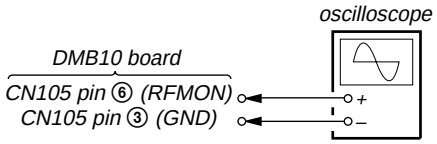
[TEST DISC LIST]

Be sure to use the DVD disc that matches the signal standards of your region.

• CD
YEDS-18 (Part No.: 3-702-101-01)
PATD-012 (Part No.: 4-225-203-01)
• DVD SL (Single Layer)
NTSC : HLX-503 (Part No.: J-6090-069-A)
HLX-504 (Part No.: J-6090-088-A)
PAL : HLX-506 (Part No.: J-6090-077-A)
• DVD DL (Dual Layer)
NTSC : HLX-501 (Part No.: J-6090-071-A)
HLX-505 (Part No.: J-6090-089-A)
PAL : HLX-507 (Part No.: J-6090-078-A)

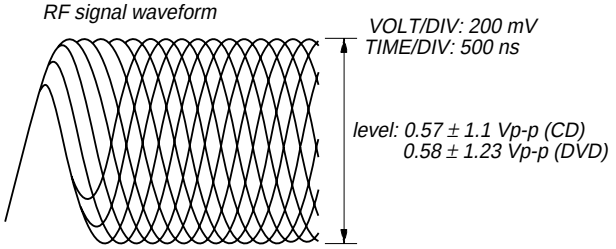
[RF Level Check]

Connection:

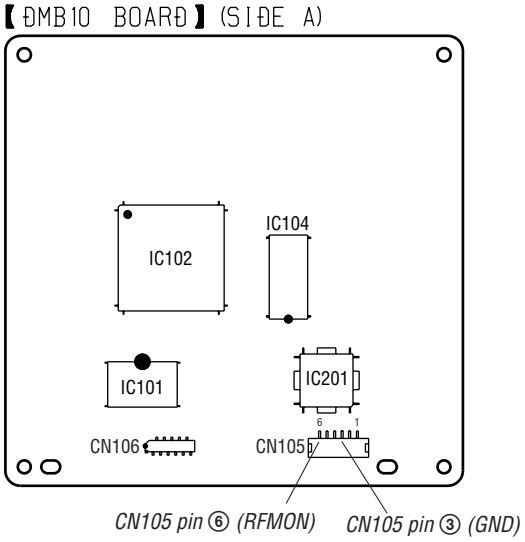


Procedure:

1. Conect an oscilloscope to CN105 pin ⑥ (RFMON) and CN105 pin ③ (GND) on the DMB10 board.
2. Turn the power on.
3. Insert the CD test disc (refer to the TEST DISC LIST), and press the ▷ button to play the disc back.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
   Note: A clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.
5. Eject the CD disc, and insert the DVD SL test disk (refer to the TEST DISC LIST), and press the ▷ button to play the disc back.



Checking Location: DMB10 board (Side A)



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REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2005.05	New
1.1	2005.11	Addition of Note on DMB10 board replacement SUPPLEMENT-1 : Addition of ELECTRICAL ADJUSTMENT (DVD SECTION) (SPM-05077)
1.2	2005.12	Addition of part number for MIB01 BOARD, COMPLETE Addition of note on " NOTE OF HANDLING THE MIB01 BOARD (A-1124-106-A) " (SPM-05086)